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TABLES FOR ESTIMATING BOARD-FOOT VOLUME OF TIMBER

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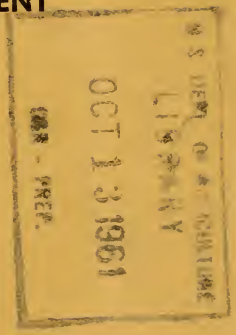

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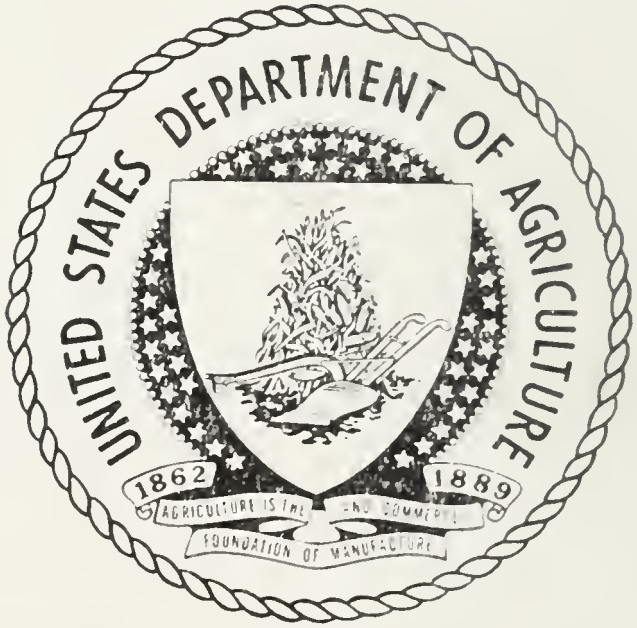

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TABLES FOR ESTIMATING BOARD-FOOT VOLUME OF TIMBER

By CLEMENT MESAVAGE, *forester, Southern Forest Experiment Station* and JAMES W. GIRARD, *assistant director, Forest Survey*

The tables presented here have been compiled for use in estimating the board-foot contents of eastern hardwoods and of southern hardwood and softwood timber. Where checks have been made in other regions with felled trees not exceeding six 16-foot logs in merchantable height, the measured volumes have agreed closely with corresponding values in these tables. This indicates their possible use outside the regions for which they were primarily prepared. Separate tables[1] are given for the International ¼-inch log rule, the Scribner log rule, and the Doyle log rule.

Table Construction

These tables are based on the assumption that trees having the same diameter and merchantable height will have similar, though not necessarily identical, rates of taper in the sawlog portion *above the first log*, and that all differences in volume in trees of the same diameter and merchantable height may be attributed largely to taper variations which occur *in the first log*. These volume differences are provided for by 26 separate tables, each of which shows volume according to diameter classes and an index to first log taper, called form class.

Definition of form class. Form class is the percentage ratio between the diameter, inside bark, at the top of the first 16-foot log and the diameter outside bark at breast height (4½ feet above the ground). For example, a tree with a first-log scaling diameter of 16.0 inches and a breast-high diameter of 20.0 inches has a form class of (16 ÷ 20 x 100) 80 percent.

[1] Values are from formulas prepared especially for volume-table construction.

Upper-log tapers. Taper is the decrease of diameter in a log or a tree stem from butt to top. The average upper-log taper rates shown in table 2 were originally compiled from ocular estimates of taper on about 2,000 trees of assorted species in the anthracite region of Pennsylvania, and later modified and extended on the basis of ocular taper estimates made on about 20,000 additional trees throughout the South. Although taper differences exist between and within species, measurements of felled trees summarized in table 3 show that the values given in the tables, which are based on these average tapers, may be applied with reasonable accuracy to a number of species in a wide range of localities.

The following example illustrates how the taper estimates in table 2 were used in compiling the tables. A form-class-80 tree with a diameter of 20.0 inches will have a first-log scaling diameter of 16.0 inches. In a tree having two 16-foot logs, second-log taper is shown by table 2 to be 2.1 inches. Scaling diameter of the second log is therefore 16.0 minus 2.1 or 13.9 inches. The two logs scale 181 and 133 board feet, International ¼-inch, respectively, or 314 board feet for the tree. Volumes for all trees in even 2-inch diameter classes and full log lengths were computed for each form class in this manner. Volumes for odd diameters and half-log lengths were obtained by interpolation.

Use of Tables in Timber Estimating

Procedure. Except for the necessity of determining form class, the procedure in applying these tables in a timber cruise is the same as required for volume tables which are based only on diameter and height. For most accurate results, trees in each desired species group should be tallied by diameter and height classes. An average form class may then be assigned to each species group and volume obtained from the corresponding table. Because form class may vary widely for a given species, more accurate volume estimates

will be obtained if separate form-class ratios are determined for each diameter class tallied as part of the cruising procedure.

Another method of cruising is to tally only the diameter of the trees in each species group. Tree heights are later determined by measuring sufficient sample trees to plot a satisfactory curve of height over diameter. Volumes for each diameter class are then obtained from a volume table based on diameter and height, and applied to the diameter-class tally. The attached tables can be used with this method, provided the additional factor of form class is obtained for each diameter class.

Merchantable height. Merchantable height includes that portion of a tree from stump height to a point on the stem at which merchantability for saw timber is limited by branches, deformity, or minimum diameter. For smooth stems this minimum diameter is usually not less than 60 percent of tree diameter breast high in the case of the smallest sawlog trees, usually 10 inches, or 40 percent for large trees, 30 to 40 inches in diameter. *This definition of merchantability or usable log length must be carefully observed.* If height measurements include the small tops to which northern conifers are frequently utilized or the small tops of old-field southern pines made temporarily profitable by wartime conditions, the tables will overscale.

Determination of form class. Cruisers having no previous experience with tree form class will find it necessary to base it on direct measurements of tree diameter and first-log scaling diameter. On standing trees, measurement of diameter at the top of the first log may be secured by climbing or by the use of a light sectional ladder. Two centers and one base section of a window cleaner's ladder are recommended. Extended, these sections are about 17 feet long, and when telescoped they are easily transported. After practice, however, ocular estimates of form class of sufficient accuracy for most purposes are possible, and are much preferred because they speed up timber estimating. Proficiency in ocular

estimates of form class can be developed and checked by the following procedure:

1. Stand away from a tree in position to observe the bole from the point at which tree diameter is measured to the top of the first log. Study the taper in the first log, estimate the form class and record it. In making this estimate, avoid trying to derive it from ocular estimates of the actual diameters.

2. Check the estimate by measuring the form-class percentage as follows:

   a. Measure tree diameter to the nearest tenth of an inch.

   b. Measure the scaling diameter at the top of the first log to the nearest tenth inch.

   c. Divide the scaling diameter of the first log by the diameter of the tree. The quotient, expressed as a percentage, is the form class.

3. Compare the results with the estimated form class. Repeat the test on additional trees until proficiency is acquired. A good start in ocular estimating can be developed by a few hours' practice.

Form class of swell-butted species. In swell-butted species, such as cypress and tupelo, volume would be underestimated if tree diameter were measured at breast height, because the upper-log tapers on which the tables are based were correlated with breast-high diameters of trees with normal butt taper. The upper-log tapers of swell-butted trees are less than in trees of normal stem form having the same diameter. Because of this, tree diameter of swell-butted species should be measured about 18 inches above the pronounced swell. Measurement of first-log scaling diameter remains unchanged. In normal trees the two related diameters are 12½ feet apart, but on swell-butted species they may be only 6 to 10 feet, depending on the height of stump and the degree of swell.

Form class of trees chipped for turpentine. When the

tree bole at breast height is deformed by turpentine chipping, tree diameter should be measured just above the highest face. Although the diameter will be smaller, the form class will be higher and consequently there will be a compensating increase in volume. Top of the first log should always be measured at 16 feet above the point where the tree will be cut.

Effect of scaling practice on form class. Although the Doyle log rule was designed for inside-bark scaling practice, it is customary on some private operations in the South to increase the scale, particularly for small logs, by including in log-diameter measurement one or both bark thicknesses to compensate for low values of the rule. Where such scaling practice is observed, the accompanying tables will give volume estimates needing no further correction if form class is based on first-log diameter according to local scaling practice and normal diameter at breast height. For example, a 20-inch tree with a normal form class of 80 percent will have an adjusted form class of 85 percent if an inch is added to the inside-bark scaling diameter of the first log to allow for bark thickness. Including bark thickness in the log-diameter measurement will increase the form class for any tree and consequently the volume read from the table.

Form class averages. Advance knowledge of the form class of common eastern species will be helpful to cruisers unfamiliar with this term (table 4). These averages should not be used in lieu of local determinations unless a considerable amount of error is permissible. For example, second-growth southern pines average about 78, yet the spread in form class ranges from about 65 for small, branchy, old-field pines to 83 for older trees growing in dense stands.

Table Corrections

When it seems likely that the upper-log average tapers assumed in these tables would result in excessive error, the volume in felled trees should be measured for comparison with the corresponding volumes in the tables. Log rules

curved especially for use in volume-table construction are presented as tables 5, 6, and 7.

Measurement of about 50 trees of assorted diameters in each usable length class should be sufficient. Volume in one-log trees will obviously remain unchanged. If a check shows the tables to be 3 percent high in each height class, they can be easily adjusted. Since the average increase or decrease in volume for a change of 1 percent in form class approximates 3 percent in tree volume, the simplest procedure is to adjust the form class. In this case the volume of a form class 78 tree would be obtained from the form class 77 table. Similarly, if a check revealed the tables 3 percent low, the volume of a form class 78 tree would be obtained from the form class 79 table. The refinement obtained by such a check will seldom be warranted. However, if the check is made the trees measured should be well distributed over the area to which the adjusted tables are to be applied.

Determination of Defect

Estimates of losses in tree volume on account of defect are largely dependent on visible external evidences and require some experience with the species under consideration. When dealing with high-quality timber, use of table 1 will facilitate a log-by-log estimate of quantity and quality loss on account of defect.

TABLE 1.—*Average distribution of tree volume by logs according to log position*

Usable length (number of 16-foot logs)	Percent of total tree volume in each log, by position					
	1st	2d	3d	4th	5th	6th
1	100					
2	58	42				
3	42	33	25			
4	34	29	22	15		
5	29	25	21	15	10	
6	24	23	20	16	11	6

TABLE 2.—*Average upper-log taper (inches) in 16-foot logs*

Diameter breast high (inches)	2-log tree	3-log tree		4-log tree			5-log tree				6-log tree				
	2d log	2d log	3d log	2d log	3d log	4th log	2d log	3d log	4th log	5th log	2d log	3d log	4th log	5th log	6th log
10	1.4	1.2	1.4												
12	1.6	1.3	1.5	1.1	1.4	1.9									
14	1.7	1.4	1.6	1.2	1.5	2.0									
16	1.9	1.5	1.7	1.2	1.6	2.1									
18	2.0	1.6	1.8	1.3	1.7	2.2									
20	2.1	1.7	1.9	1.4	1.8	2.4	1.1	1.6	2.2	2.9					
22	2.2	1.8	2.0	1.4	2.0	2.5	1.1	1.7	2.3	2.9					
24	2.3	1.8	2.2	1.5	2.2	2.6	1.1	1.8	2.4	3.1					
26	2.4	1.9	2.3	1.5	2.3	2.7	1.1	1.9	2.5	3.2					
28	2.5	1.9	2.5	1.6	2.4	2.8	1.2	1.9	2.6	3.3	0.9	1.4	2.1	3.2	4.4
30	2.6	2.0	2.6	1.7	2.5	3.0	1.2	2.0	2.7	3.5	.9	1.4	2.1	3.2	4.5
32	2.7	2.0	2.7	1.7	2.5	3.1	1.2	2.1	2.9	3.7	1.0	1.4	2.1	3.2	4.6
34	2.8	2.1	2.7	1.8	2.5	3.3	1.3	2.1	3.0	3.8	1.0	1.4	2.2	3.3	4.7
36	2.8	2.1	2.8	1.8	2.6	3.4	1.3	2.2	3.0	3.9	1.1	1.5	2.2	3.3	4.9
38	2.9	2.1	2.8	1.9	2.6	3.4	1.3	2.2	3.1	3.9	1.1	1.5	2.3	3.4	5.1
40	2.9	2.2	2.8	1.9	2.7	3.4	1.4	2.3	3.2	4.0	1.2	1.5	2.4	3.5	5.3

TABLE 3.—*Comparison of measured board-foot volume with volumes in form-class tables*

Region and species	Measured trees	Measured[1] volume	Volume from tables	Difference
South:	*Number*	*Board feet*	*Board feet*	*Percent*
Loblolly pine	727	175,983	176,905	0.5
Shortleaf pine	85	20,583	20,272	−1.5
Slash pine	295	59,845	59,509	−0.6
Longleaf pine	238	121,867	122,682	0.7
Cypress	54	31,376	31,791	1.3
Total softwoods	1,399	409,654	411,159	0.4
Gums	149	60,289	59,931	−0.6
Oaks	131	69,532	68,843	−1.0
Other hardwoods	60	17,580	17,186	−2.2
Total hardwoods	340	147,401	145,960	−1.0
Total all species	1,739	557,055	557,119	(2)
Appalachian:				
Loblolly pine	110	38,318	38,341	0.1
Shortleaf pine	117	26,290	26,479	0.7
Cypress	30	32,729	32,365	−1.1
Total softwoods	257	97,337	97,185	−0.2
Oaks, hickory, and chestnut	525	239,101	235,544	−1.5
Sweetgum (red gum)	82	60,483	59,454	−1.7
Yellow poplar	107	75,265	75,261	(2)
Beech	67	33,156	32,163	−3.0
Walnut	44	6,431	6,396	−0.5
Maple	64	22,242	21,078	−5.2
Ash	20	14,834	14,532	−2.0
Other hardwoods	37	11,362	11,254	−1.0
Total hardwoods	946	462,874	455,682	−1.6
Total all species	1,203	560,211	552,867	−1.3

[1]Trees measured with calipers. Bark thickness measured with Swedish bark measurer.
[2]Negligible.

TABLE 3.—*Comparison of measured board-foot volume with volumes in form-class tables*—Continued

Region and species	Measured trees	Measured[1] volume	Volume from tables	Difference
Northeast:	*Number*	*Board feet*	*Board feet*	*Percent*
Hemlock	102	13,124	[3]13,598	3.6
Virginia pine	18	1,121	[3]1,123	0.2
White pine	71	14,348	[3]14,502	1.1
Total softwoods	191	28,593	29,223	2.2
Maple	38	8,916	9,266	3.9
Beech	84	19,063	18,976	−0.5
Birch	48	12,965	13,109	1.1
Oaks	55	8,053	8,243	2.4
Other hardwoods	77	12,314	12,668	2.9
Total hardwoods	302	61,311	62,262	1.6
Total all species	493	89,904	91,485	1.8
West:				
Ponderosa pine (old-growth)	240	451,212	447,722	−0.8
Ponderosa pine (second-growth)	262	119,473	119,229	−0.2
Total	502	570,685	566,951	−0.7
Puerto Rico:				
Tobonuca, *Laurel sabino*	249	101,687	101,611	−0.1
Haiti:				
Pinus occidentalis	100	39,418	39,280	−0.4
France:				
Scotch pine	70	13,565	[3]13,574	([2])
Luxembourg:				
Norway spruce	22	4,765	[3]4,698	−1.4
Total foreign species	441	159,435	159,163	−0.2

[1]Trees measured with calipers. Bark thickness measured with Swedish bark measurer.

[2]Negligible.

[3]Merchantable height adjusted to conform with table restrictions on height measurement.

TABLE 4.—*Form-class averages by species—Eastern United States*[1]

Species	North-east	Appa-lachian	Missis-sippi Delta	South	Cen-tral States	Lake States
Softwoods:						
Southern pines (second-growth)	-------	-------	-------	78	-------	-------
Southern pines (old-growth)	-------	-------	-------	84	-------	-------
White pine	80	79	-------	-------	80	78
Hemlock	78	78	-------	-------	78	77
Spruces	78	82	-------	-------	78	80
Balsam fir	80	-------	-------	-------	-------	80
Cypress	-------	[2]78	[2]78	[2]78	-------	-------
Hardwoods:						
White oak (second-growth)	78	78	78	78	78	78
White oak (old-growth)	82	82	80	80	82	80
Red oaks	78	78	78	78	78	78
Yellow poplar (second-growth)	78	78	77	77	78	78
Yellow poplar (old-growth)	80	82	80	81	82	80
Cherry	80	82	-------	-------	82	80
Basswood	80	80	-------	79	78	78
Walnut	78	78	-------	78	78	78
Beech	84	84	82	82	82	82
Maples	79	79	78	77	79	78
Birches	78	78	78	78	78	78
Upland ashes	80	82	80	78	82	82
Red gum and black gum	78	78	-------	77	80	80
Hickories	78	78	76	77	78	78
Swamp ash	-------	-------	[2]80	-------	-------	-------
Cottonwood and willow	78	78	76	78	78	78
Tupelo	-------	-------	[2]80	-------	-------	-------
Other common hardwoods	78	78	76	78	78	78

[1]Scaling diameter of first 16-foot log is inside bark, average way, to nearest inch.

[2]Form class of cypress, tupelo, and swamp ash based on tree diameter measured at about 18 inches above pronounced swell.

TABLE 5.—*Scale of 16-foot logs to nearest board foot from International log rule, ¼-inch kerf*[1]

[Tenths of inches]

D.i.b. (inches)	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
6	19	20	21	22	23	23	24	25	26	27
7	28	29	30	31	32	33	34	35	36	38
8	39	40	41	42	43	45	46	47	48	50
9	51	52	54	55	56	58	59	60	62	63
10	65	66	68	69	71	72	74	75	77	78
11	80	82	83	85	87	88	90	92	93	95
12	97	99	100	102	104	106	108	110	112	114
13	115	117	119	121	123	125	127	129	131	133
14	136	138	140	142	144	146	148	151	153	155
15	157	160	162	164	166	169	171	173	176	178
16	181	183	185	188	190	193	195	198	200	203
17	205	208	211	213	216	219	221	224	227	229
18	232	235	237	240	243	246	249	251	254	257
19	260	263	266	269	272	275	278	281	284	287
20	290	293	296	299	302	305	308	311	315	318
21	321	324	327	331	334	337	341	344	347	351
22	354	357	361	364	367	371	374	378	381	385
23	388	392	395	399	403	406	410	413	417	421
24	424	428	432	435	439	443	447	451	454	458
25	462	466	470	474	478	481	485	489	493	497
26	501	505	509	513	517	521	526	530	534	538
27	542	546	550	555	559	563	567	572	576	580
28	584	589	593	598	602	606	611	615	620	624
29	628	633	637	642	647	651	656	660	665	669
30	674	679	683	688	693	697	702	707	712	716
31	721	726	731	736	741	745	750	755	760	765
32	770	775	780	785	790	795	800	805	810	815
33	820	826	831	836	841	846	851	857	862	867
34	872	878	883	888	894	899	904	910	915	921
35	926	931	937	942	948	953	959	964	970	976

[1]Computed from formula $V = 0.796\ D^2 - 1.375D - 1.230$.

TABLE 5.—*Scale of 16-foot logs to nearest board foot from International log rule, ¼-inch kerf*[1]—Continued

[Tenths of inches]

D.i.b. (inches)	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
36	981	987	992	998	1,004	1,009	1,015	1,021	1,026	1,032
37	1,038	1,044	1,049	1,055	1,061	1,067	1,073	1,079	1,084	1,090
38	1,096	1,102	1,108	1,114	1,120	1,126	1,132	1,138	1,144	1,150
39	1,156	1,162	1,168	1,174	1,181	1,187	1,193	1,199	1,205	1,211
40	1,218	1,224	1,230	1,236	1,243	1,249	1,255	1,262	1,268	1,274
41	1,281	1,287	1,294	1,300	1,306	1,313	1,319	1,326	1,332	1,339
42	1,345	1,352	1,359	1,365	1,372	1,378	1,385	1,392	1,398	1,405
43	1,412	1,419	1,425	1,432	1,439	1,446	1,452	1,459	1,466	1,473
44	1,480	1,487	1,493	1,500	1,507	1,514	1,521	1,528	1,535	1,542
45	1,549	1,556	1,563	1,570	1,577	1,585	1,592	1,599	1,606	1,613
46	1,620	1,627	1,635	1,642	1,649	1,656	1,664	1,671	1,678	1,686
47	1,693	1,700	1,708	1,715	1,722	1,730	1,737	1,745	1,752	1,760
48	1,767	1,775	1,782	1,790	1,797	1,805	1,813	1,820	1,828	1,835

[1]Computed from formula $V = 0.796\ D^2 - 1.375D - 1.230$.

TABLE 6.—*Scale of 16-foot logs to nearest board foot, Scribner rule,*[1] *(diameter inside bark to tenth of an inch)*

[Tenths of inches]

D.i.b. (inches)	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
6	12	13	14	15	16	16	17	18	19	20
7	21	22	23	24	24	25	26	27	28	29
8	30	31	32	33	34	36	37	38	39	41
9	42	43	45	46	47	48	50	51	52	54
10	55	56	58	60	61	63	64	66	67	69
11	70	72	74	75	77	78	80	81	83	84
12	86	88	90	91	93	95	97	99	101	102
13	104	106	108	110	111	113	115	117	119	121
14	123	125	127	129	131	133	135	137	140	142
15	144	146	148	150	153	155	157	159	161	164
16	166	168	171	173	175	177	180	182	185	187
17	189	191	194	196	199	202	204	207	210	213
18	216	218	221	224	227	229	231	234	237	240
19	243	245	248	251	254	257	260	263	266	269
20	272	275	278	281	284	287	290	293	296	299
21	302	305	308	311	314	317	320	323	327	330
22	334	337	340	344	348	351	354	358	361	365
23	368	372	375	379	382	386	390	394	397	400
24	403	406	410	414	418	422	426	429	432	436
25	440	444	448	452	456	460	464	468	472	475
26	478	482	486	490	494	498	502	506	510	514
27	518	522	526	530	534	538	542	546	550	554
28	559	563	567	571	575	579	583	587	592	597
29	602	606	611	615	620	624	629	633	638	642
30	647	651	656	660	665	669	674	678	683	688
31	693	698	703	708	712	717	722	726	731	736
32	741	746	751	756	761	766	770	775	780	785
33	790	795	800	805	810	815	820	825	830	835
34	841	846	851	856	862	867	872	877	883	888
35	894	900	905	910	915	921	926	931	937	942

[1]Computed from formula $V = .79D^2 - 2D - 4$.

TABLE 6.—*Scale of 16-foot logs to nearest board foot, Scribner rule,*[1] *(diameter inside bark to tenth of an inch)*—Continued

[Tenths of inches]

D.i.b. (inches)	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
36	948	954	959	965	971	977	982	988	993	998
37	1,004	1,010	1,016	1,021	1,027	1,032	1,038	1,043	1,049	1,055
38	1,061	1,067	1,073	1,079	1,085	1,091	1,097	1,103	1,109	1,115
39	1,120	1,126	1,132	1,138	1,144	1,150	1,156	1,162	1,168	1,174
40	1,180	1,186	1,192	1,198	1,204	1,210	1,216	1,222	1,228	1,235
41	1,242	1,249	1,255	1,261	1,268	1,274	1,280	1,286	1,293	1,300
42	1,306	1,312	1,318	1,325	1,331	1,338	1,344	1,351	1,358	1,364

[1]Computed from formula $V=.79D^2-2D-4$.

TABLE 7.—*Scale of 16-foot logs to nearest board foot from Doyle rule*[1]

[Tenths of inches]

D.i.b. (inches)	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
5	1	1	1	2	2	2	3	3	3	4
6	4	4	5	5	6	6	7	7	8	8
7	9	10	10	11	12	12	13	14	14	15
8	16	17	18	18	19	20	21	22	23	24
9	25	26	27	28	29	30	31	32	34	35
10	36	37	38	40	41	42	44	45	46	48
11	49	50	52	53	55	56	58	59	61	62
12	64	66	67	69	71	72	74	76	77	79
13	81	83	85	86	88	90	92	94	96	98
14	100	102	104	106	108	110	112	114	117	119
15	121	123	125	128	130	132	135	137	139	142
16	144	146	149	151	154	156	159	161	164	166
17	169	172	174	177	180	182	185	188	190	193
18	196	199	202	204	207	210	213	216	219	222
19	225	228	231	234	237	240	243	246	250	253
20	256	259	262	266	269	272	276	279	282	286
21	289	292	296	299	303	306	310	313	317	320
22	324	328	331	335	339	342	346	350	353	357
23	361	365	369	372	376	380	384	388	392	396
24	400	404	408	412	416	420	424	428	433	437
25	441	445	449	454	458	462	467	471	475	480
26	484	488	493	497	502	506	511	515	520	524
27	529	534	538	543	548	552	557	562	566	571
28	576	581	586	590	595	600	605	610	615	620
29	625	630	635	640	645	650	655	660	666	671
30	676	681	686	692	697	702	708	713	718	724
31	729	734	740	745	751	756	762	767	773	778
32	784	790	795	801	807	812	818	824	829	835
33	841	847	853	858	864	870	876	882	888	894
34	900	906	912	918	924	930	936	942	949	955

[1]Computed from formula: $\frac{(D-4)^2 \times L}{16}$.

TABLE 7.—*Scale of 16-foot logs to nearest board foot from Doyle rule*[1]—Continued

[Tenths of inches]

D.i.b. (inches)	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
35	961	967	973	980	986	992	999	1,005	1,011	1,018
36	1,024	1,030	1,037	1,043	1,050	1,056	1,063	1,069	1,076	1,082
37	1,089	1,096	1,102	1,109	1,116	1,122	1,129	1,136	1,142	1,149
38	1,156	1,163	1,170	1,176	1,183	1,190	1,197	1,204	1,211	1,218
39	1,225	1,232	1,239	1,246	1,253	1,260	1,267	1,274	1,282	1,289
40	1,296	1,303	1,310	1,318	1,325	1,332	1,340	1,347	1,354	1,362
41	1,369	1,376	1,384	1,391	1,399	1,406	1,414	1,421	1,429	1,436
42	1,444	1,452	1,459	1,467	1,475	1,482	1,490	1,498	1,505	1,513

[1]Computed from formula: $\frac{(D-4)^3 \times L}{16}$.

International 1/4-inch Rule

(Form Class 65-90)

TABLE 8.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	23	29	35	-----	-----	-----	-----	-----	-----	-----	-----
11	30	38	46	-----	-----	-----	-----	-----	-----	-----	-----
12	36	46	57	64	71	-----	-----	-----	-----	-----	-----
13	44	57	70	80	89	-----	-----	-----	-----	-----	-----
14	52	68	84	96	107	-----	-----	-----	-----	-----	-----
15	62	81	100	114	129	-----	-----	-----	-----	-----	-----
16	71	94	116	134	151	162	174	-----	-----	-----	-----
17	82	108	134	155	176	190	204	-----	-----	-----	-----
18	92	122	152	176	200	216	233	-----	-----	-----	-----
19	104	138	172	200	228	247	266	-----	-----	-----	-----
20	115	154	193	224	256	278	299	316	332	-----	-----
21	128	172	217	252	288	313	338	358	378	-----	-----
22	142	192	241	280	320	348	377	401	425	-----	-----
23	156	211	266	311	356	387	418	447	476	-----	-----
24	171	232	292	342	392	426	459	492	526	-----	-----
25	187	254	320	376	431	470	508	546	583	-----	-----
26	203	276	349	410	470	514	557	598	640	-----	-----
27	220	300	380	446	513	560	608	654	701	-----	-----
28	237	324	410	483	556	608	659	710	762	808	854
29	256	350	444	523	602	658	714	772	829	884	938
30	275	376	478	564	649	708	768	832	896	959	1,022
31	295	404	514	607	700	766	833	900	967	1,037	1,107
32	315	432	550	651	752	825	898	968	1,038	1,115	1,192
33	336	462	588	697	806	885	964	1,039	1,114	1,200	1,286
34	357	492	626	743	860	944	1,029	1,110	1,191	1,285	1,379
35	380	524	668	794	920	1,011	1,102	1,190	1,278	1,375	1,472
36	403	557	711	846	980	1,078	1,175	1,270	1,365	1,466	1,566
37	427	590	754	899	1,044	1,148	1,252	1,356	1,460	1,566	1,672
38	451	624	798	954	1,109	1,218	1,328	1,442	1,556	1,666	1,777
39	476	661	846	1,010	1,174	1,293	1,412	1,529	1,646	1,764	1,882
40	501	697	893	1,066	1,239	1,367	1,495	1,615	1,735	1,861	1,987

TABLE 9.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	24	30	37	-----	-----	-----	-----	-----	-----	-----	-----
11	31	40	48	-----	-----	-----	-----	-----	-----	-----	-----
12	38	49	60	67	74	-----	-----	-----	-----	-----	-----
13	46	60	74	83	92	-----	-----	-----	-----	-----	-----
14	54	70	87	99	111	-----	-----	-----	-----	-----	-----
15	64	84	104	119	134	-----	-----	-----	-----	-----	-----
16	74	98	121	140	158	170	183	-----	-----	-----	-----
17	84	112	140	162	184	199	214	-----	-----	-----	-----
18	95	126	158	184	209	226	244	-----	-----	-----	-----
19	107	144	180	209	238	258	278	-----	-----	-----	-----
20	119	160	201	234	266	288	311	329	347	-----	-----
21	132	178	224	261	298	324	351	372	394	-----	-----
22	146	197	248	290	331	361	391	416	440	-----	-----
23	161	218	274	321	368	400	433	462	492	-----	-----
24	176	238	301	353	405	440	475	510	545	-----	-----
25	194	263	332	390	448	488	528	568	608	-----	-----
26	211	288	364	427	490	536	582	626	671	-----	-----
27	228	312	396	465	534	584	634	684	733	-----	-----
28	246	336	427	503	579	633	687	741	795	843	891
29	265	363	461	544	626	684	742	803	864	920	976
30	284	390	495	584	673	736	798	865	932	996	1,061
31	304	418	531	628	725	794	864	934	1,004	1,076	1,148
32	324	446	567	672	777	854	930	1,003	1,076	1,155	1,234
33	346	476	606	719	832	914	996	1,075	1,154	1,242	1,330
34	367	506	645	766	887	975	1,063	1,148	1,232	1,329	1,426
35	392	542	692	822	952	1,048	1,144	1,236	1,328	1,428	1,529
36	417	578	738	878	1,018	1,121	1,224	1,324	1,423	1,528	1,632
37	442	612	782	933	1,084	1,193	1,302	1,411	1,520	1,630	1,740
38	466	646	827	988	1,150	1,265	1,380	1,499	1,618	1,734	1,849
39	492	684	875	1,046	1,216	1,340	1,465	1,588	1,710	1,838	1,956
40	517	720	923	1,103	1,283	1,416	1,550	1,676	1,801	1,932	2,064

TABLE 10.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	25	32	39	-----	-----	-----	-----	-----	-----	-----	-----
11	32	41	50	-----	-----	-----	-----	-----	-----	-----	-----
12	39	50	62	70	77	-----	-----	-----	-----	-----	-----
13	48	62	76	87	98	-----	-----	-----	-----	-----	-----
14	56	74	91	104	118	-----	-----	-----	-----	-----	-----
15	66	86	107	124	140	-----	-----	-----	-----	-----	-----
16	75	99	123	142	162	176	189	-----	-----	-----	-----
17	87	116	144	167	190	206	222	-----	-----	-----	-----
18	99	132	165	192	218	236	255	-----	-----	-----	-----
19	111	149	186	217	248	269	290	-----	-----	-----	-----
20	123	166	208	242	277	300	324	342	361	-----	-----
21	137	184	232	271	310	337	364	386	409	-----	-----
22	151	204	257	300	343	374	405	431	457	-----	-----
23	167	226	286	335	384	418	451	482	514	-----	-----
24	183	248	314	369	424	460	497	534	571	-----	-----
25	200	272	344	404	464	506	548	589	630	-----	-----
26	216	294	373	438	504	552	599	644	690	-----	-----
27	235	322	408	480	552	604	657	708	758	-----	-----
28	254	348	442	522	601	658	715	771	827	878	929
29	274	376	477	563	649	710	772	835	898	957	1,016
30	293	402	512	604	697	762	828	898	968	1,036	1,104
31	314	431	548	649	750	823	896	969	1,042	1,117	1,192
32	334	460	585	694	804	884	964	1,040	1,115	1,198	1,280
33	358	493	628	746	864	950	1,037	1,120	1,202	1,294	1,385
34	381	526	671	798	924	1,017	1,110	1,199	1,288	1,389	1,490
35	404	560	715	850	986	1,086	1,186	1,282	1,378	1,483	1,588
36	428	594	759	904	1,048	1,154	1,261	1,364	1,467	1,576	1,685
37	454	630	807	964	1,120	1,234	1,347	1,460	1,574	1,689	1,804
38	481	668	855	1,024	1,192	1,312	1,433	1,557	1,681	1,802	1,923
39	508	706	905	1,082	1,260	1,390	1,520	1,648	1,775	1,904	2,032
40	534	744	955	1,142	1,328	1,468	1,607	1,738	1,869	2,006	2,142

TABLE 11.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	26	34	41	-----	-----	-----	-----	-----	-----	-----	-----
11	34	44	53	-----	-----	-----	-----	-----	-----	-----	-----
12	41	53	65	74	83	-----	-----	-----	-----	-----	-----
13	50	65	80	91	102	-----	-----	-----	-----	-----	-----
14	58	76	94	108	121	-----	-----	-----	-----	-----	-----
15	68	90	112	128	145	-----	-----	-----	-----	-----	-----
16	78	104	129	149	169	183	197	-----	-----	-----	-----
17	89	118	148	172	196	212	228	-----	-----	-----	-----
18	100	134	168	195	222	241	260	-----	-----	-----	-----
19	114	153	192	223	254	276	298	-----	-----	-----	-----
20	127	171	215	251	287	312	337	356	376	-----	-----
21	142	192	242	282	323	352	382	405	428	-----	-----
22	157	213	269	314	359	392	426	454	481	-----	-----
23	172	234	296	347	398	434	470	503	536	-----	-----
24	188	256	324	380	436	475	514	552	591	-----	-----
25	206	281	356	418	480	525	570	613	656	-----	-----
26	224	306	388	456	525	575	625	673	721	-----	-----
27	242	331	420	495	570	624	679	732	786	-----	-----
28	260	356	453	534	616	674	733	792	851	904	956
29	281	386	491	580	668	732	795	862	928	990	1,052
30	302	416	529	625	721	789	857	931	1,005	1,076	1,147
31	324	447	570	675	780	856	932	1,009	1,086	1,166	1,245
32	347	478	610	724	839	923	1,007	1,087	1,167	1,255	1,343
33	370	510	650	773	896	986	1,076	1,163	1,250	1,346	1,442
34	392	542	691	822	953	1,050	1,146	1,239	1,332	1,436	1,540
35	418	578	739	880	1,020	1,124	1,229	1,330	1,430	1,539	1,648
36	443	615	787	938	1,088	1,200	1,312	1,420	1,529	1,642	1,756
37	468	650	832	994	1,156	1,274	1,393	1,512	1,630	1,749	1,868
38	493	686	878	1,051	1,224	1,349	1,474	1,602	1,730	1,855	1,980
39	522	727	932	1,115	1,298	1,434	1,569	1,701	1,833	1,966	2,100
40	550	768	985	1,179	1,373	1,518	1,664	1,800	1,936	2,078	2,221

TABLE 12.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	27	34	42	-----	-----	-----	-----	-----	-----	-----	-----
11	34	44	54	-----	-----	-----	-----	-----	-----	-----	-----
12	42	54	67	76	85	-----	-----	-----	-----	-----	-----
13	51	67	83	94	106	-----	-----	-----	-----	-----	-----
14	60	80	99	113	127	136	145	-----	-----	-----	-----
15	70	93	116	133	150	162	174	-----	-----	-----	-----
16	80	106	132	153	174	188	203	-----	-----	-----	-----
17	92	123	154	178	203	220	238	-----	-----	-----	-----
18	104	140	175	204	232	252	272	-----	-----	-----	-----
19	118	158	199	232	265	288	311	-----	-----	-----	-----
20	131	177	223	260	298	324	350	371	392	-----	-----
21	146	198	250	292	335	366	396	421	446	-----	-----
22	162	220	277	324	372	406	441	470	500	-----	-----
23	178	242	307	360	414	452	490	525	560	-----	-----
24	195	266	337	396	456	497	538	578	619	-----	-----
25	212	290	368	433	498	544	591	636	680	-----	-----
26	229	314	398	468	539	592	644	693	742	-----	-----
27	249	342	434	512	590	647	704	759	814	-----	-----
28	269	369	469	554	640	702	763	824	885	940	995
29	290	399	508	600	692	759	826	895	964	1,028	1,092
30	311	428	546	646	745	817	889	966	1,043	1,116	1,189
31	334	461	588	697	806	886	965	1,045	1,125	1,207	1,289
32	357	493	629	748	866	954	1,041	1,124	1,207	1,298	1,389
33	382	528	673	800	928	1,023	1,118	1,208	1,298	1,398	1,498
34	406	562	717	854	991	1,092	1,194	1,292	1,389	1,498	1,607
35	430	596	762	908	1,055	1,164	1,272	1,377	1,482	1,595	1,708
36	454	631	808	964	1,119	1,234	1,349	1,462	1,575	1,692	1,809
37	482	670	858	1,026	1,194	1,316	1,438	1,562	1,686	1,810	1,933
38	509	708	908	1,088	1,268	1,398	1,528	1,662	1,796	1,926	2,057
39	538	750	963	1,154	1,344	1,484	1,625	1,763	1,901	2,040	2,180
40	567	792	1,018	1,218	1,419	1,570	1,722	1,864	2,006	2,154	2,302

TABLE 13.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	28	36	44	-----	-----	-----	-----	-----	-----	-----	-----
11	36	46	56	-----	-----	-----	-----	-----	-----	-----	-----
12	43	56	69	78	88	-----	-----	-----	-----	-----	-----
13	52	69	86	98	110	-----	-----	-----	-----	-----	-----
14	62	82	102	116	131	140	149	-----	-----	-----	-----
15	72	96	120	138	156	168	181	-----	-----	-----	-----
16	83	110	138	160	182	198	213	-----	-----	-----	-----
17	96	128	160	186	212	230	248	-----	-----	-----	-----
18	108	145	182	212	242	263	284	-----	-----	-----	-----
19	122	164	206	241	276	300	324	-----	-----	-----	-----
20	136	184	231	270	309	336	364	386	408	-----	-----
21	151	204	258	302	346	378	410	436	462	-----	-----
22	166	226	285	334	383	420	457	487	517	-----	-----
23	183	250	316	371	426	466	505	541	577	-----	-----
24	200	273	346	408	469	511	553	595	637	-----	-----
25	218	299	380	448	515	564	612	659	706	-----	-----
26	237	325	413	487	561	616	671	723	775	-----	-----
27	258	354	450	531	612	672	732	790	848	-----	-----
28	278	382	486	575	664	728	793	857	921	978	1,035
29	300	412	525	622	718	788	857	930	1,002	1,068	1,134
30	321	442	564	668	771	846	921	1,002	1,082	1,158	1,233
31	344	475	606	719	832	915	998	1,082	1,165	1,250	1,335
32	367	508	648	770	893	984	1,075	1,162	1,248	1,342	1,437
33	392	542	693	825	957	1,055	1,153	1,246	1,340	1,444	1,548
34	417	578	738	880	1,021	1,126	1,231	1,332	1,433	1,546	1,659
35	444	616	788	940	1,091	1,204	1,318	1,427	1,536	1,653	1,770
36	470	654	837	999	1,161	1,282	1,404	1,522	1,639	1,760	1,882
37	498	693	888	1,062	1,237	1,366	1,494	1,623	1,752	1,880	2,008
38	526	732	939	1,126	1,313	1,449	1,585	1,725	1,865	2,000	2,134
39	555	774	994	1,192	1,389	1,536	1,684	1,828	1,971	2,116	2,260
40	584	817	1,050	1,258	1,465	1,624	1,782	1,930	2,077	2,232	2,387

TABLE 14.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	29	38	46	-----	-----	-----	-----	-----	-----	-----	-----
11	37	48	59	-----	-----	-----	-----	-----	-----	-----	-----
12	45	58	72	82	92	-----	-----	-----	-----	-----	-----
13	54	71	88	101	114	-----	-----	-----	-----	-----	-----
14	63	84	104	120	135	144	153	-----	-----	-----	-----
15	75	100	124	144	163	176	188	-----	-----	-----	-----
16	87	116	145	168	191	208	224	-----	-----	-----	-----
17	100	134	167	194	221	240	260	-----	-----	-----	-----
18	112	150	189	220	251	274	296	-----	-----	-----	-----
19	126	170	214	250	286	312	337	-----	-----	-----	-----
20	140	190	239	280	320	349	378	400	423	-----	-----
21	156	211	266	312	358	391	424	452	479	-----	-----
22	171	232	294	344	395	433	471	503	535	-----	-----
23	188	256	325	382	438	479	520	558	597	-----	-----
24	205	280	356	419	482	526	570	614	659	-----	-----
25	226	309	392	462	532	583	634	684	734	-----	-----
26	246	338	429	506	583	641	699	754	808	-----	-----
27	266	366	466	551	636	698	760	821	882	-----	-----
28	287	395	503	596	688	755	822	889	956	1,016	1,077
29	309	426	542	642	743	816	888	963	1,038	1,108	1,178
30	331	456	582	690	798	876	955	1,038	1,120	1,200	1,279
31	354	490	625	742	860	946	1,033	1,120	1,206	1,294	1,382
32	378	523	668	794	921	1,016	1,111	1,202	1,292	1,389	1,486
33	403	558	714	850	986	1,088	1,190	1,287	1,384	1,492	1,599
34	428	594	759	905	1,051	1,160	1,269	1,373	1,477	1,594	1,712
35	456	634	812	969	1,126	1,244	1,362	1,476	1,590	1,712	,1835
36	485	676	866	1,034	1,202	1,329	1,456	1,579	1,702	1,830	1,958
37	514	716	918	1,099	1,280	1,414	1,549	1,683	1,817	1,952	2,086
38	542	756	970	1,164	1,357	1,500	1,642	1,787	1,932	2,072	2,213
39	572	800	1,027	1,232	1,436	1,589	1,742	1,892	2,042	2,192	2,342
40	602	842	1,083	1,298	1,514	1,678	1,842	1,996	2,151	2,310	2,470

TABLE 15.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	30	39	48	-----	-----	-----	-----	-----	-----	-----	-----
11	38	50	61	-----	-----	-----	-----	-----	-----	-----	-----
12	46	60	74	84	95	-----	-----	-----	-----	-----	-----
13	56	74	92	105	118	-----	-----	-----	-----	-----	-----
14	66	88	109	126	142	152	163	-----	-----	-----	-----
15	77	102	128	148	168	182	196	-----	-----	-----	-----
16	88	118	147	171	195	212	228	-----	-----	-----	-----
17	102	136	171	200	228	248	268	-----	-----	-----	-----
18	115	155	195	228	261	284	308	-----	-----	-----	-----
19	130	175	220	258	296	322	349	-----	-----	-----	-----
20	144	195	246	288	331	360	390	414	439	-----	-----
21	160	217	274	322	370	404	438	467	496	-----	-----
22	176	240	303	356	409	448	487	520	553	-----	-----
23	194	265	336	396	456	499	542	582	621	-----	-----
24	213	292	370	436	503	550	596	642	689	-----	-----
25	232	318	404	477	550	603	656	708	759	-----	-----
26	251	345	439	518	597	657	717	773	829	-----	-----
27	274	377	480	567	654	720	785	848	911	-----	-----
28	296	408	520	616	712	782	853	923	993	1,056	1,119
29	318	439	560	664	768	844	920	998	1,076	1,149	1,222
30	341	471	601	712	824	906	988	1,074	1,159	1,242	1,326
31	364	504	644	765	886	976	1,067	1,156	1,246	1,338	1,430
32	388	538	687	818	949	1,048	1,146	1,240	1,333	1,434	1,535
33	416	576	737	878	1,020	1,126	1,233	1,334	1,436	1,548	1,659
34	443	615	787	939	1,091	1,206	1,320	1,430	1,539	1,661	1,783
35	470	654	838	1,000	1,163	1,286	1,408	1,527	1,646	1,772	1,899
36	497	693	889	1,062	1,235	1,366	1,497	1,624	1,752	1,884	2,015
37	528	737	946	1,133	1,320	1,459	1,598	1,738	1,878	2,017	2,156
38	559	780	1,002	1,203	1,404	1,552	1,700	1,852	2,003	2,150	2,296
39	590	825	1,060	1,272	1,484	1,643	1,802	1,958	2,114	2,270	2,426
40	620	868	1,117	1,340	1,563	1,734	1,905	2,065	2,225	2,390	2,556

TABLE 16.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	31	40	49	-----	-----	-----	-----	-----	-----	-----	-----
11	40	52	64	-----	-----	-----	-----	-----	-----	-----	-----
12	48	63	78	89	100	-----	-----	-----	-----	-----	-----
13	58	77	96	110	123	-----	-----	-----	-----	-----	-----
14	68	90	113	130	146	156	167	-----	-----	-----	-----
15	80	107	134	155	176	190	204	-----	-----	-----	-----
16	92	123	154	180	205	222	240	-----	-----	-----	-----
17	104	140	176	206	235	256	277	-----	-----	-----	-----
18	117	158	199	232	265	290	314	-----	-----	-----	-----
19	132	179	226	265	304	332	360	-----	-----	-----	-----
20	148	201	254	298	342	374	405	430	454	-----	-----
21	166	226	285	334	384	421	458	488	518	-----	-----
22	183	250	316	372	427	470	512	546	581	-----	-----
23	201	274	348	410	472	518	563	604	645	-----	-----
24	219	300	381	449	517	566	614	662	709	-----	-----
25	240	329	418	494	569	624	680	733	786	-----	-----
26	260	358	455	538	621	684	747	806	864	-----	-----
27	281	387	493	584	675	742	810	876	942	-----	-----
28	302	416	531	630	729	801	873	946	1,019	1,084	1,148
29	326	451	576	683	790	869	948	1,029	1,110	1,185	1,260
30	351	486	620	736	851	936	1,022	1,111	1,200	1,286	1,373
31	377	522	667	794	920	1,014	1,109	1,202	1,296	1,392	1,488
32	403	558	714	851	988	1,092	1,196	1,294	1,393	1,498	1,603
33	428	594	761	908	1,055	1,166	1,277	1,383	1,489	1,604	1,720
34	454	631	808	965	1,122	1,240	1,358	1,472	1,585	1,711	1,837
35	484	674	864	1,032	1,200	1,328	1,456	1,579	1,702	1,833	1,964
36	513	716	919	1,099	1,279	1,416	1,553	1,686	1,818	1,954	2,091
37	542	757	972	1,165	1,358	1,503	1,648	1,792	1,937	2,081	2,225
38	572	799	1,026	1,232	1,438	1,591	1,744	1,900	2,056	2,208	2,359
39	604	846	1,088	1,306	1,524	1,690	1,855	2,018	2,177	2,338	2,500
40	637	894	1,150	1,380	1,611	1,788	1,966	2,132	2,298	2,470	2,642

TABLE 17.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	32	42	51	-----	-----	-----	-----	-----	-----	-----	-----
11	41	54	66	-----	-----	-----	-----	-----	-----	-----	-----
12	50	66	81	92	104	-----	-----	-----	-----	-----	-----
13	60	80	100	114	129	-----	-----	-----	-----	-----	-----
14	71	94	118	136	154	166	177	-----	-----	-----	-----
15	82	110	137	159	181	196	211	-----	-----	-----	-----
16	93	124	156	182	208	226	245	-----	-----	-----	-----
17	107	144	181	212	242	264	286	-----	-----	-----	-----
18	121	164	206	241	276	302	327	-----	-----	-----	-----
19	137	186	235	274	314	344	374	-----	-----	-----	-----
20	153	208	263	308	353	386	420	446	472	-----	-----
21	170	232	294	345	396	435	474	505	536	-----	-----
22	188	257	326	383	440	484	528	564	600	-----	-----
23	208	284	361	426	490	537	584	628	671	-----	-----
24	227	312	396	468	539	590	641	692	742	-----	-----
25	246	338	431	510	588	646	704	759	814	-----	-----
26	266	366	466	551	636	701	766	826	887	-----	-----
27	288	398	507	600	694	765	836	904	972	-----	-----
28	311	430	548	650	753	829	905	980	1, 056	1, 123	1, 190
29	336	465	594	705	816	898	980	1, 064	1, 149	1, 227	1, 305
30	361	500	639	758	878	966	1, 055	1, 148	1, 242	1, 331	1, 420
31	387	536	686	817	948	1, 046	1, 144	1, 242	1, 339	1, 438	1, 538
32	413	574	734	876	1, 017	1, 124	1, 232	1, 334	1, 436	1, 546	1, 656
33	442	614	786	938	1, 090	1, 206	1, 322	1, 432	1, 542	1, 663	1, 784
34	470	654	837	1, 000	1, 164	1, 288	1, 412	1, 530	1, 649	1, 780	1, 912
35	498	694	890	1, 064	1, 238	1, 371	1, 504	1, 632	1, 760	1, 896	2, 032
36	526	734	943	1, 128	1, 313	1, 454	1, 595	1, 732	1, 870	2, 010	2, 151
37	558	780	1, 001	1, 200	1, 399	1, 550	1, 700	1, 850	1, 999	2, 148	2, 296
38	589	824	1, 059	1, 272	1, 485	1, 644	1, 804	1, 966	2, 128	2, 285	2, 442
39	622	872	1, 122	1, 348	1, 574	1, 746	1, 918	2, 085	2, 252	2, 420	2, 588
40	656	921	1, 186	1, 424	1, 662	1, 846	2, 031	2, 203	2, 375	2, 554	2, 733

TABLE 18.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	33	43	53	-----	-----	-----	-----	-----	-----	-----	-----
11	42	55	68	-----	-----	-----	-----	-----	-----	-----	-----
12	51	67	83	95	107	-----	-----	-----	-----	-----	-----
13	62	82	102	117	132	-----	-----	-----	-----	-----	-----
14	72	96	120	138	157	169	181	-----	-----	-----	-----
15	84	113	142	164	187	203	219	-----	-----	-----	-----
16	97	130	163	190	217	237	257	-----	-----	-----	-----
17	111	150	188	220	252	275	298	-----	-----	-----	-----
18	125	169	213	250	286	312	339	-----	-----	-----	-----
19	141	192	242	284	326	356	386	-----	-----	-----	-----
20	157	214	271	318	365	399	433	460	488	-----	-----
21	175	239	303	356	410	449	488	521	554	-----	-----
22	193	264	335	394	454	499	544	582	620	-----	-----
23	212	291	370	437	504	553	602	647	692	-----	-----
24	232	318	405	479	553	606	659	712	764	-----	-----
25	254	349	444	525	606	666	727	786	844	-----	-----
26	275	379	483	572	660	728	795	860	924	-----	-----
27	298	412	525	622	720	793	866	938	1,010	-----	-----
28	321	444	567	673	779	858	938	1,016	1,095	1,164	1,234
29	346	479	612	727	842	928	1,014	1,102	1,189	1,270	1,352
30	371	514	658	782	905	998	1,090	1,186	1,283	1,276	1,469
31	398	552	706	841	976	1,078	1,180	1,281	1,382	1,485	1,588
32	424	590	755	901	1,047	1,158	1,270	1,376	1,481	1,594	1,708
33	452	630	807	964	1,121	1,240	1,360	1,474	1,589	1,714	1,838
34	481	670	859	1,027	1,195	1,322	1,450	1,574	1,697	1,833	1,969
35	512	714	916	1,096	1,276	1,414	1,551	1,684	1,817	1,958	2,100
36	542	758	974	1,166	1,357	1,504	1,652	1,794	1,937	2,084	2,232
37	574	803	1,032	1,238	1,445	1,602	1,758	1,914	2,069	2,224	2,380
38	606	848	1,091	1,312	1,533	1,698	1,864	2,032	2,201	2,364	2,528
39	640	898	1,156	1,389	1,622	1,801	1,980	2,154	2,327	2,502	2,676
40	674	947	1,220	1,466	1,712	1,904	2,095	2,274	2,453	2,638	2,824

TABLE 19.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	34	44	55	62	69	-----	-----	-----	-----	-----	-----
11	43	56	70	80	90	-----	-----	-----	-----	-----	-----
12	52	68	85	98	110	-----	-----	-----	-----	-----	-----
13	63	84	104	120	136	-----	-----	-----	-----	-----	-----
14	74	99	124	143	162	174	186	-----	-----	-----	-----
15	87	116	146	170	194	210	226	-----	-----	-----	-----
16	100	134	169	198	226	246	267	-----	-----	-----	-----
17	114	154	195	228	262	286	310	-----	-----	-----	-----
18	129	175	221	259	297	325	353	-----	-----	-----	-----
19	146	198	250	294	337	369	401	-----	-----	-----	-----
20	162	220	279	328	377	413	449	478	507	-----	-----
21	180	246	312	367	422	463	504	538	573	-----	-----
22	198	271	344	406	467	514	560	600	639	-----	-----
23	218	299	380	448	517	568	618	665	712	-----	-----
24	237	326	415	491	567	622	676	730	785	-----	-----
25	260	359	458	542	626	688	751	812	872	-----	-----
26	284	392	500	592	684	755	826	892	959	-----	-----
27	308	425	542	644	745	822	898	972	1,046	-----	-----
28	331	458	585	696	806	888	971	1,052	1,134	1,207	1,280
29	356	494	631	750	870	959	1,048	1,139	1,230	1,314	1,398
30	381	529	677	805	933	1,029	1,125	1,226	1,326	1,422	1,517
31	408	567	726	866	1,005	1,110	1,216	1,321	1,426	1,532	1,639
32	435	606	776	926	1,077	1,192	1,307	1,417	1,527	1,644	1,761
33	464	646	828	990	1,152	1,276	1,399	1,518	1,636	1,764	1,893
34	493	687	881	1,054	1,227	1,359	1,491	1,618	1,746	1,886	2,025
35	526	735	944	1,130	1,316	1,460	1,600	1,738	1,877	2,023	2,169
36	559	782	1,006	1,205	1,404	1,557	1,710	1,859	2,008	2,160	2,313
37	592	829	1,066	1,280	1,493	1,656	1,818	1,980	2,142	2,303	2,464
38	624	874	1,125	1,354	1,582	1,754	1,926	2,101	2,276	2,445	2,614
39	658	924	1,190	1,432	1,673	1,858	2,042	2,223	2,404	2,584	2,765
40	693	974	1,256	1,510	1,764	1,962	2,159	2,346	2,532	2,724	2,916

TABLE 20.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	35	46	57	64	70	-----	-----	-----	-----	-----	-----
11	44	58	72	82	92	-----	-----	-----	-----	-----	-----
12	54	71	88	102	115	-----	-----	-----	-----	-----	-----
13	66	87	108	125	142	-----	-----	-----	-----	-----	-----
14	77	103	129	149	169	182	196	-----	-----	-----	-----
15	90	120	151	176	200	218	235	-----	-----	-----	-----
16	102	138	173	202	231	252	274	-----	-----	-----	-----
17	118	159	200	234	269	294	320	-----	-----	-----	-----
18	133	180	228	268	307	336	366	-----	-----	-----	-----
19	150	204	258	303	348	382	415	-----	-----	-----	-----
20	166	226	287	338	388	426	464	494	524	-----	-----
21	184	252	320	377	434	477	520	556	592	-----	-----
22	203	278	354	417	480	528	577	618	660	-----	-----
23	224	308	392	464	535	588	640	690	739	-----	-----
24	246	338	431	510	590	647	704	761	818	-----	-----
25	268	370	471	558	646	710	775	838	900	-----	-----
26	290	400	511	606	701	774	846	914	983	-----	-----
27	316	437	558	662	767	846	926	1,002	1,079	-----	-----
28	341	472	604	718	833	919	1,005	1,090	1,175	1,251	1,327
29	366	508	650	774	898	990	1,083	1,178	1,272	1,360	1,448
30	392	544	697	830	962	1,062	1,161	1,266	1,370	1,469	1,568
31	420	584	748	892	1,035	1,144	1,254	1,363	1,472	1,582	1,692
32	447	622	798	953	1,108	1,228	1,347	1,461	1,575	1,696	1,816
33	478	666	855	1,022	1,190	1,319	1,448	1,571	1,694	1,827	1,960
34	509	710	912	1,092	1,271	1,410	1,548	1,680	1,813	1,958	2,104
35	540	756	971	1,162	1,354	1,503	1,652	1,794	1,937	2,089	2,241
36	572	801	1,030	1,234	1,438	1,596	1,755	1,908	2,061	2,220	2,378
37	607	850	1,094	1,314	1,534	1,703	1,872	2,039	2,206	2,373	2,540
38	642	900	1,159	1,395	1,631	1,810	1,989	2,170	2,351	2,527	2,703
39	677	952	1,226	1,475	1,724	1,916	2,108	2,295	2,482	2,669	2,856
40	712	1,002	1,292	1,554	1,816	2,021	2,226	2,420	2,613	2,812	3,010

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TABLE 21.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	36	48	59	66	73	-----	-----	-----	-----	-----	-----
11	46	61	76	86	96	-----	-----	-----	-----	-----	-----
12	56	74	92	106	120	128	137	-----	-----	-----	-----
13	67	90	112	130	147	158	168	-----	-----	-----	-----
14	78	105	132	153	174	187	200	-----	-----	-----	-----
15	92	124	156	182	208	225	242	-----	-----	-----	-----
16	106	143	180	210	241	263	285	-----	-----	-----	-----
17	121	164	206	242	278	304	330	-----	-----	-----	-----
18	136	184	233	274	314	344	374	-----	-----	-----	-----
19	154	209	264	311	358	392	427	-----	-----	-----	-----
20	171	234	296	343	401	440	480	511	542	-----	-----
21	191	262	332	391	450	496	542	579	616	-----	-----
22	211	290	368	434	500	552	603	647	691	-----	-----
23	231	318	404	478	552	608	663	714	766	-----	-----
24	251	346	441	523	605	664	723	782	840	-----	-----
25	275	380	484	574	665	732	800	865	930	-----	-----
26	299	414	523	626	725	801	877	949	1,021	-----	-----
27	323	448	572	680	788	870	952	1,032	1,111	-----	-----
28	347	482	616	733	850	938	1,027	1,114	1,201	1,280	1,358
29	375	521	667	794	920	1,016	1,112	1,210	1,308	1,398	1,488
30	403	560	718	854	991	1,094	1,198	1,306	1,415	1,517	1,619
31	432	602	772	921	1,070	1,184	1,299	1,412	1,526	1,640	1,754
32	462	644	826	988	1,149	1,274	1,400	1,518	1,637	1,762	1,888
33	492	686	880	1,053	1,226	1,360	1,495	1,622	1,750	1,888	2,026
34	521	728	934	1,119	1,304	1,447	1,590	1,727	1,864	2,014	2,163
35	555	776	998	1,196	1,394	1,548	1,702	1,851	2,000	2,156	2,312
36	589	826	1,063	1,274	1,485	1,650	1,814	1,974	2,135	2,298	2,461
37	622	873	1,124	1,351	1,578	1,752	1,926	2,099	2,272	2,444	2,616
38	656	921	1,186	1,428	1,670	1,854	2,038	2,224	2,410	2,590	2,771
39	694	976	1,258	1,514	1,769	1,968	2,166	2,359	2,552	2,744	2,937
40	731	1,030	1,329	1,598	1,868	2,081	2,294	2,494	2,693	2,898	3,103

TABLE 22.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	38	50	61	69	77	-----	-----	-----	-----	-----	-----
11	48	63	78	89	100	-----	-----	-----	-----	-----	-----
12	58	77	96	110	124	132	141	-----	-----	-----	-----
13	70	94	117	135	153	164	176	-----	-----	-----	-----
14	82	110	138	160	182	196	211	-----	-----	-----	-----
15	95	128	160	187	214	233	252	-----	-----	-----	-----
16	108	146	183	214	246	269	292	-----	-----	-----	-----
17	124	168	212	249	286	313	340	-----	-----	-----	-----
18	140	190	240	282	325	356	388	-----	-----	-----	-----
19	158	215	272	321	370	406	442	-----	-----	-----	-----
20	176	240	305	360	414	455	496	528	561	-----	-----
21	196	269	342	403	464	511	558	597	636	-----	-----
22	216	297	378	446	514	568	621	666	710	-----	-----
23	238	328	418	494	571	629	687	740	792	-----	-----
24	260	359	458	543	628	690	753	814	875	-----	-----
25	282	390	499	592	685	756	826	893	960	-----	-----
26	305	422	540	641	742	820	899	972	1,046	-----	-----
27	331	460	588	699	810	895	980	1,062	1,144	-----	-----
28	357	496	635	756	877	969	1,061	1,152	1,242	1,323	1,404
29	385	536	686	817	948	1,048	1,148	1,249	1,350	1,444	1,537
30	413	575	737	878	1,020	1,128	1,235	1,346	1,458	1,564	1,670
31	444	618	792	946	1,100	1,219	1,338	1,455	1,572	1,690	1,808
32	474	661	848	1,014	1,181	1,310	1,440	1,562	1,685	1,815	1,945
33	506	706	907	1,086	1,265	1,404	1,544	1,676	1,808	1,951	2,094
34	538	752	966	1,158	1,349	1,498	1,647	1,790	1,932	2,088	2,244
35	570	798	1,026	1,230	1,435	1,594	1,754	1,907	2,060	2,222	2,384
36	602	844	1,087	1,304	1,521	1,690	1,860	2,024	2,189	2,357	2,525
37	638	896	1,154	1,387	1,620	1,800	1,980	2,159	2,338	2,516	2,694
38	674	947	1,220	1,470	1,720	1,910	2,101	2,294	2,488	2,675	2,862
39	712	1,002	1,292	1,557	1,822	2,027	2,232	2,432	2,632	2,832	3,031
40	750	1,058	1,365	1,644	1,923	2,142	2,362	2,568	2,775	2,988	3,200

TABLE 23.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	39	51	63	72	80	-----	-----	-----	-----	-----	-----
11	49	64	80	92	104	-----	-----	-----	-----	-----	-----
12	59	78	98	112	127	136	146	-----	-----	-----	-----
13	71	96	120	138	156	168	181	-----	-----	-----	-----
14	83	112	141	164	186	201	216	-----	-----	-----	-----
15	98	132	166	194	221	240	260	-----	-----	-----	-----
16	112	151	190	223	256	280	305	-----	-----	-----	-----
17	128	174	219	258	296	325	354	-----	-----	-----	-----
18	144	196	248	292	336	369	402	-----	-----	-----	-----
19	162	222	281	332	382	420	457	-----	-----	-----	-----
20	181	248	314	370	427	470	512	546	580	-----	-----
21	201	276	350	414	478	526	575	616	656	-----	-----
22	221	304	387	458	528	583	638	685	732	-----	-----
23	244	336	428	507	586	646	706	761	816	-----	-----
24	266	368	469	556	644	708	773	836	899	-----	-----
25	290	402	514	610	706	779	852	922	992	-----	-----
26	315	436	558	662	767	849	931	1,008	1,086	-----	-----
27	341	474	606	721	836	925	1,014	1,100	1,185	-----	-----
28	367	510	654	779	904	1,000	1,096	1,190	1,284	1,368	1,453
29	396	551	706	842	977	1,080	1,184	1,289	1,394	1,491	1,588
30	424	591	758	904	1,050	1,161	1,272	1,388	1,503	1,613	1,723
31	454	634	814	973	1,132	1,254	1,376	1,497	1,618	1,740	1,862
32	485	678	870	1,042	1,213	1,346	1,480	1,606	1,733	1,867	2,001
33	518	724	930	1,114	1,298	1,442	1,586	1,722	1,858	2,005	2,152
34	550	770	989	1,186	1,383	1,537	1,691	1,838	1,984	2,144	2,304
35	585	820	1,055	1,266	1,477	1,642	1,806	1,965	2,124	2,291	2,458
36	620	870	1,121	1,346	1,571	1,746	1,922	2,093	2,264	2,438	2,612
37	656	922	1,188	1,430	1,672	1,858	2,044	2,230	2,416	2,600	2,783
38	693	974	1,256	1,514	1,772	1,970	2,167	2,368	2,568	2,761	2,954
39	732	1,031	1,330	1,602	1,874	2,087	2,300	2,507	2,714	2,920	3,127
40	770	1,086	1,403	1,690	1,977	2,204	2,432	2,646	2,860	3,080	3,300

TABLE 24.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	40	52	65	74	82	-----	-----	-----	-----	-----	-----
11	50	66	82	94	106	-----	-----	-----	-----	-----	-----
12	60	80	100	115	130	140	150	-----	-----	-----	-----
13	72	97	122	141	160	173	186	-----	-----	-----	-----
14	85	114	144	167	190	206	221	-----	-----	-----	-----
15	100	135	170	199	228	248	268	-----	-----	-----	-----
16	115	156	197	231	265	290	316	-----	-----	-----	-----
17	132	179	226	266	306	336	366	-----	-----	-----	-----
18	148	202	256	301	346	380	415	-----	-----	-----	-----
19	166	228	290	341	392	432	471	-----	-----	-----	-----
20	185	254	323	381	439	483	527	562	598	-----	-----
21	206	283	360	426	492	542	592	634	676	-----	-----
22	227	312	398	471	544	600	656	705	754	-----	-----
23	250	344	439	520	602	663	724	781	838	-----	-----
24	272	376	480	570	659	725	791	857	923	-----	-----
25	298	413	528	627	726	802	877	950	1,024	-----	-----
26	324	450	575	684	793	878	963	1,044	1,124	-----	-----
27	351	488	624	744	863	955	1,047	1,136	1,226	-----	-----
28	378	526	674	804	933	1,032	1,131	1,229	1,327	1,414	1,502
29	406	566	726	866	1,006	1,113	1,220	1,329	1,438	1,539	1,640
30	435	607	779	930	1,080	1,195	1,310	1,430	1,549	1,663	1,777
31	466	651	836	999	1,162	1,289	1,416	1,541	1,666	1,792	1,918
32	497	694	892	1,068	1,245	1,384	1,522	1,653	1,784	1,922	2,059
33	530	742	953	1,142	1,332	1,480	1,628	1,769	1,910	2,062	2,214
34	563	788	1,014	1,216	1,419	1,576	1,734	1,886	2,037	2,202	2,368
35	600	842	1,084	1,301	1,518	1,688	1,859	2,024	2,188	2,361	2,534
36	637	896	1,154	1,386	1,618	1,801	1,984	2,161	2,338	2,519	2,700
37	674	948	1,223	1,472	1,721	1,915	2,109	2,302	2,494	2,684	2,874
38	712	1,002	1,292	1,558	1,824	2,029	2,234	2,442	2,649	2,849	3,049
39	751	1,058	1,366	1,647	1,928	2,148	2,368	2,582	2,796	3,010	3,224
40	790	1,116	1,441	1,736	2,032	2,267	2,502	2,723	2,944	3,172	3,399

TABLE 25.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	41	54	67	76	85	-----	-----	-----	-----	-----	-----
11	52	68	85	98	110	-----	-----	-----	-----	-----	-----
12	62	82	103	119	135	145	155	-----	-----	-----	-----
13	75	100	126	146	167	180	193	-----	-----	-----	-----
14	88	119	150	174	199	215	231	-----	-----	-----	-----
15	102	138	175	204	234	255	276	-----	-----	-----	-----
16	117	158	200	235	270	296	322	-----	-----	-----	-----
17	135	184	232	273	314	345	376	-----	-----	-----	-----
18	153	209	265	312	359	394	430	-----	-----	-----	-----
19	172	235	298	352	406	446	486	-----	-----	-----	-----
20	190	261	332	392	453	498	543	580	617	-----	-----
21	211	290	370	438	505	556	608	652	696	-----	-----
22	232	320	408	482	557	616	674	725	776	-----	-----
23	256	354	452	536	620	684	748	808	868	-----	-----
24	281	389	497	590	683	752	822	890	959	-----	-----
25	306	424	542	644	747	826	904	980	1, 055	-----	-----
26	331	460	588	700	811	899	987	1, 069	1, 151	-----	-----
27	360	500	640	763	886	982	1, 077	1, 169	1, 261	-----	-----
28	388	540	693	827	961	1, 064	1, 167	1, 269	1, 371	1, 461	1, 551
29	418	582	747	892	1, 036	1, 147	1, 258	1, 371	1, 484	1, 588	1, 691
30	447	624	801	956	1, 111	1, 230	1, 350	1, 474	1, 597	1, 714	1, 831
31	478	668	858	1, 026	1, 194	1, 325	1, 456	1, 586	1, 716	1, 846	1, 975
32	509	712	915	1, 096	1, 278	1, 420	1, 563	1, 698	1, 834	1, 976	2, 119
33	544	762	980	1, 176	1, 372	1, 525	1, 678	1, 825	1, 972	2, 129	2, 286
34	580	813	1, 046	1, 256	1, 465	1, 630	1, 794	1, 952	2, 110	2, 281	2, 452
35	616	865	1, 114	1, 338	1, 561	1, 738	1, 914	2, 084	2, 253	2, 432	2, 610
36	651	916	1, 181	1, 419	1, 657	1, 845	2, 033	2, 214	2, 396	2, 582	2, 769
37	691	973	1, 255	1, 511	1, 767	1, 968	2, 168	2, 366	2, 563	2, 760	2, 958
38	731	1, 030	1, 329	1, 603	1, 877	2, 090	2, 302	2, 516	2, 730	2, 938	3, 146
39	770	1, 087	1, 404	1, 693	1, 982	2, 210	2, 438	2, 660	2, 881	3, 102	3, 323
40	810	1, 144	1, 479	1, 784	2, 088	2, 330	2, 573	2, 802	3, 032	3, 266	3, 500

TABLE 26.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	42	56	69	78	88	-----	-----	-----	-----	-----	-----
11	54	71	88	102	115	-----	-----	-----	-----	-----	-----
12	65	86	108	125	142	153	164	-----	-----	-----	-----
13	78	104	130	152	173	187	201	-----	-----	-----	-----
14	90	122	153	178	204	221	238	-----	-----	-----	-----
15	106	143	180	211	242	264	286	-----	-----	-----	-----
16	121	164	208	244	280	308	335	-----	-----	-----	-----
17	138	188	238	280	322	354	386	-----	-----	-----	-----
18	155	212	269	316	364	400	437	-----	-----	-----	-----
19	175	240	305	360	414	456	498	-----	-----	-----	-----
20	195	268	341	403	465	512	560	598	637	-----	-----
21	218	300	382	452	522	576	631	676	722	-----	-----
22	240	332	423	501	579	640	702	755	808	-----	-----
23	264	365	466	553	640	706	772	834	895	-----	-----
24	287	398	508	604	700	771	842	912	982	-----	-----
25	314	436	558	664	769	850	932	1,010	1,087	-----	-----
26	341	474	607	722	838	930	1,021	1,106	1,192	-----	-----
27	368	512	656	782	909	1,008	1,106	1,201	1,296	-----	-----
28	395	550	706	843	980	1,086	1,192	1,296	1,401	1,493	1,585
29	426	595	764	912	1,061	1,176	1,290	1,406	1,522	1,629	1,736
30	458	640	822	982	1,142	1,265	1,388	1,516	1,644	1,765	1,886
31	492	688	884	1,058	1,233	1,368	1,504	1,639	1,774	1,908	2,042
32	526	736	947	1,136	1,324	1,472	1,620	1,762	1,903	2,051	2,199
33	560	784	1,009	1,210	1,412	1,571	1,730	1,882	2,034	2,196	2,358
34	593	832	1,071	1,286	1,501	1,670	1,839	2,002	2,164	2,340	2,516
35	631	887	1,143	1,374	1,604	1,786	1,968	2,144	2,320	2,504	2,688
36	669	942	1,215	1,461	1,707	1,902	2,096	2,286	2,475	2,668	2,860
37	707	996	1,286	1,549	1,812	2,018	2,224	2,428	2,633	2,836	3,039
38	745	1,050	1,356	1,637	1,918	2,136	2,353	2,572	2,791	3,004	3,218
39	788	1,113	1,438	1,735	2,032	2,266	2,500	2,728	2,955	3,182	3,410
40	831	1,175	1,519	1,832	2,145	2,396	2,648	2,884	3,119	3,361	3,603

TABLE 27.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	43	57	71	81	91	-----	-----	-----	-----	-----	-----
11	54	72	91	104	118	-----	-----	-----	-----	-----	-----
12	66	88	111	128	145	156	168	-----	-----	-----	-----
13	80	108	135	156	178	193	208	-----	-----	-----	-----
14	93	126	159	186	212	230	248	-----	-----	-----	-----
15	108	146	185	217	249	272	295	-----	-----	-----	-----
16	123	167	211	248	286	314	342	-----	-----	-----	-----
17	142	193	244	288	332	365	398	-----	-----	-----	-----
18	160	218	277	327	377	415	453	-----	-----	-----	-----
19	180	247	314	371	428	471	524	-----	-----	-----	-----
20	200	276	351	415	479	528	576	616	657	-----	-----
21	223	308	392	464	537	593	649	696	744	-----	-----
22	246	340	434	514	595	658	722	776	830	-----	-----
23	271	376	480	570	660	729	798	862	925	-----	-----
24	296	410	525	624	724	798	873	946	1,020	-----	-----
25	322	447	572	681	790	874	958	1,038	1,118	-----	-----
26	347	483	619	737	855	948	1,042	1,130	1,217	-----	-----
27	376	524	673	802	932	1,034	1,136	1,234	1,331	-----	-----
28	406	566	727	868	1,010	1,120	1,230	1,338	1,445	1,540	1,636
29	438	612	786	939	1,092	1,211	1,330	1,450	1,569	1,680	1,790
30	470	657	844	1,008	1,173	1,301	1,429	1,561	1,693	1,818	1,943
31	504	706	907	1,086	1,265	1,406	1,546	1,684	1,823	1,962	2,101
32	538	754	970	1,164	1,357	1,510	1,664	1,808	1,953	2,106	2,259
33	574	806	1,037	1,245	1,453	1,618	1,782	1,939	2,096	2,264	2,431
34	611	858	1,104	1,326	1,549	1,725	1,901	2,070	2,240	2,422	2,603
35	647	910	1,173	1,410	1,648	1,836	2,023	2,205	2,387	2,576	2,766
36	683	962	1,242	1,494	1,746	1,946	2,145	2,341	2,534	2,732	2,929
37	724	1,021	1,318	1,588	1,859	2,072	2,284	2,495	2,706	2,914	3,123
38	765	1,079	1,393	1,682	1,972	2,197	2,422	2,650	2,877	3,097	3,317
39	808	1,142	1,476	1,782	2,088	2,329	2,570	2,806	3,042	3,277	3,512
40	851	1,204	1,558	1,880	2,203	2,461	2,719	2,964	3,208	3,457	3,706

TABLE 28.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	45	60	74	84	94	-----	-----	-----	-----	-----	-----
11	56	75	94	108	122	-----	-----	-----	-----	-----	-----
12	68	91	114	132	150	162	173	-----	-----	-----	-----
13	82	110	138	161	184	199	214	-----	-----	-----	-----
14	95	129	163	190	217	236	254	-----	-----	-----	-----
15	111	151	191	224	257	280	304	-----	-----	-----	-----
16	127	173	219	258	297	326	355	-----	-----	-----	-----
17	146	199	252	297	342	377	412	-----	-----	-----	-----
18	164	224	285	336	388	428	468	-----	-----	-----	-----
19	184	253	322	381	440	486	531	-----	-----	-----	-----
20	205	282	360	426	492	543	594	636	678	-----	-----
21	228	315	402	476	550	608	667	716	765	-----	-----
22	251	348	444	526	609	674	740	796	852	-----	-----
23	276	383	490	582	675	746	818	884	950	-----	-----
24	302	420	537	639	741	818	895	971	1,047	-----	-----
25	330	459	588	700	812	899	986	1,070	1,153	-----	-----
26	357	498	638	760	882	979	1,076	1,168	1,259	-----	-----
27	387	540	693	827	961	1,066	1,172	1,273	1,374	-----	-----
28	417	582	748	894	1,040	1,154	1,267	1,378	1,490	1,590	1,689
29	448	628	807	964	1,122	1,245	1,368	1,492	1,616	1,730	1,844
30	481	674	866	1,036	1,205	1,337	1,469	1,605	1,741	1,870	1,999
31	516	723	930	1,114	1,298	1,443	1,588	1,731	1,874	2,017	2,160
32	550	772	993	1,192	1,391	1,548	1,706	1,856	2,006	2,164	2,321
33	587	824	1,061	1,274	1,488	1,658	1,827	1,988	2,150	2,322	2,495
34	624	876	1,129	1,358	1,586	1,767	1,948	2,121	2,294	2,482	2,669
35	663	934	1,204	1,448	1,692	1,888	2,080	2,267	2,454	2,650	2,846
36	702	990	1,278	1,538	1,797	2,004	2,212	2,413	2,614	2,818	3,022
37	744	1,050	1,355	1,634	1,912	2,132	2,352	2,570	2,788	3,004	3,219
38	785	1,108	1,432	1,730	2,027	2,260	2,493	2,728	2,962	3,189	3,416
39	828	1,172	1,515	1,830	2,144	2,394	2,644	2,887	3,130	3,372	3,614
40	872	1,235	1,598	1,929	2,260	2,528	2,795	3,046	3,298	3,556	3,813

TABLE 29.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	46	61	76	86	97	-----	-----	-----	-----	-----	-----
11	58	77	96	110	125	-----	-----	-----	-----	-----	-----
12	69	92	116	134	153	165	177	-----	-----	-----	-----
13	83	112	141	164	188	203	218	-----	-----	-----	-----
14	97	132	166	194	222	241	260	-----	-----	-----	-----
15	114	155	196	230	264	289	314	-----	-----	-----	-----
16	131	178	226	266	307	338	369	-----	-----	-----	-----
17	150	205	260	307	354	390	426	-----	-----	-----	-----
18	169	232	294	348	401	442	484	-----	-----	-----	-----
19	190	261	332	393	454	501	548	-----	-----	-----	-----
20	211	291	371	439	507	560	613	656	698	-----	-----
21	234	324	413	490	566	626	686	736	787	-----	-----
22	257	356	455	540	625	692	760	818	876	-----	-----
23	282	392	502	596	691	764	838	906	974	-----	-----
24	308	428	548	652	757	836	916	994	1,071	-----	-----
25	338	470	602	718	833	924	1,014	1,100	1,186	-----	-----
26	367	512	657	783	909	1,010	1,112	1,207	1,302	-----	-----
27	398	556	713	852	990	1,099	1,208	1,314	1,420	-----	-----
28	428	598	769	920	1,070	1,188	1,305	1,421	1,537	1,640	1,743
29	460	644	828	991	1,154	1,281	1,408	1,536	1,664	1,782	1,900
30	493	690	888	1,062	1,237	1,374	1,511	1,651	1,791	1,924	2,057
31	528	740	952	1,142	1,331	1,481	1,631	1,778	1,926	2,073	2,220
32	563	790	1,017	1,221	1,425	1,588	1,751	1,906	2,060	2,222	2,384
33	600	843	1,086	1,305	1,524	1,698	1,873	2,040	2,206	2,383	2,560
34	637	896	1,154	1,388	1,622	1,808	1,995	2,173	2,351	2,544	2,737
35	679	956	1,234	1,485	1,736	1,936	2,137	2,330	2,523	2,726	2,928
36	721	1,018	1,314	1,582	1,850	2,064	2,279	2,487	2,695	2,906	3,118
37	763	1,078	1,392	1,679	1,966	2,194	2,422	2,647	2,872	3,095	3,318
38	805	1,138	1,470	1,776	2,083	2,324	2,564	2,806	3,049	3,284	3,518
39	850	1,202	1,554	1,878	2,202	2,460	2,718	2,969	3,220	3,470	3,719
40	894	1,266	1,639	1,980	2,321	2,596	2,871	3,130	3,390	3,655	3,920

TABLE 30.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	47	62	78	89	100	-----	-----	-----	-----	-----	-----
11	59	78	98	113	128	-----	-----	-----	-----	-----	-----
12	71	95	119	138	157	170	183	-----	-----	-----	-----
13	86	116	146	170	194	210	227	-----	-----	-----	-----
14	100	136	172	202	231	251	271	-----	-----	-----	-----
15	116	158	201	236	272	298	324	-----	-----	-----	-----
16	133	182	230	271	312	344	376	-----	-----	-----	-----
17	153	210	266	314	362	400	438	-----	-----	-----	-----
18	173	238	302	358	413	456	499	-----	-----	-----	-----
19	194	268	341	404	466	515	564	-----	-----	-----	-----
20	216	298	380	450	520	575	630	675	720	-----	-----
21	240	332	423	502	580	642	704	757	810	-----	-----
22	263	364	466	553	640	710	779	840	901	-----	-----
23	290	403	516	614	712	788	864	935	1,006	-----	-----
24	318	442	567	676	784	866	949	1,030	1,111	-----	-----
25	346	482	618	737	856	949	1,042	1,131	1,220	-----	-----
26	374	522	670	799	928	1,032	1,135	1,232	1,330	-----	-----
27	406	568	730	872	1,014	1,126	1,239	1,348	1,456	-----	-----
28	439	614	790	945	1,100	1,222	1,343	1,462	1,582	1,689	1,796
29	472	661	850	1,018	1,185	1,316	1,448	1,580	1,712	1,834	1,957
30	505	708	911	1,090	1,270	1,411	1,552	1,697	1,842	1,980	2,118
31	540	758	976	1,171	1,366	1,520	1,674	1,826	1,978	2,131	2,284
32	576	809	1,042	1,252	1,461	1,628	1,796	1,956	2,115	2,282	2,449
33	616	866	1,116	1,342	1,567	1,748	1,928	2,100	2,272	2,455	2,638
34	656	923	1,190	1,432	1,673	1,866	2,060	2,245	2,430	2,629	2,828
35	696	981	1,266	1,524	1,782	1,989	2,196	2,395	2,594	2,800	3,009
36	736	1,039	1,342	1,616	1,890	2,110	2,331	2,544	2,758	2,974	3,190
37	781	1,104	1,426	1,720	2,015	2,250	2,484	2,716	2,948	3,177	3,406
38	826	1,168	1,509	1,824	2,140	2,389	2,638	2,888	3,137	3,379	3,621
39	870	1,232	1,594	1,927	2,260	2,526	2,792	3,051	3,310	3,567	3,824
40	915	1,298	1,680	2,030	2,380	2,664	2,947	3,215	3,483	3,756	4,028

TABLE 31.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	48	64	80	92	103	-----	-----	-----	-----	-----	-----
11	61	82	102	118	134	-----	-----	-----	-----	-----	-----
12	74	100	125	145	165	179	193	-----	-----	-----	-----
13	88	119	150	176	200	218	235	-----	-----	-----	-----
14	102	139	176	206	235	256	277	-----	-----	-----	-----
15	120	164	207	244	280	307	334	-----	-----	-----	-----
16	138	188	238	281	324	358	391	-----	-----	-----	-----
17	157	214	272	322	372	411	450	-----	-----	-----	-----
18	176	242	307	364	420	464	508	-----	-----	-----	-----
19	198	273	348	413	478	528	578	-----	-----	-----	-----
20	221	306	390	462	535	591	647	694	741	-----	-----
21	246	341	436	518	600	664	728	783	838	-----	-----
22	272	378	483	574	664	737	810	873	936	-----	-----
23	298	414	530	631	732	811	890	963	1,036	-----	-----
24	324	451	578	690	801	886	971	1,054	1,137	-----	-----
25	354	494	634	756	879	976	1,072	1,164	1,256	-----	-----
26	385	538	690	824	957	1,064	1,172	1,274	1,375	-----	-----
27	416	582	747	893	1,039	1,155	1,271	1,383	1,495	-----	-----
28	447	626	804	962	1,121	1,246	1,370	1,492	1,615	1,724	1,833
29	482	676	869	1,040	1,212	1,347	1,482	1,618	1,754	1,879	2,004
30	517	726	934	1,118	1,303	1,449	1,595	1,744	1,892	2,034	2,176
31	555	780	1,004	1,205	1,406	1,566	1,726	1,883	2,040	2,197	2,354
32	593	834	1,074	1,291	1,508	1,682	1,856	2,022	2,187	2,360	2,532
33	631	888	1,144	1,377	1,610	1,796	1,982	2,160	2,338	2,526	2,714
34	669	942	1,215	1,463	1,711	1,909	2,107	2,298	2,488	2,692	2,897
35	712	1,004	1,297	1,562	1,828	2,041	2,254	2,460	2,665	2,879	3,093
36	755	1,067	1,379	1,662	1,945	2,172	2,400	2,621	2,842	3,066	3,289
37	798	1,128	1,458	1,761	2,064	2,305	2,546	2,784	3,023	3,258	3,494
38	841	1,190	1,538	1,860	2,183	2,437	2,691	2,948	3,204	3,452	3,700
39	889	1,260	1,630	1,971	2,312	2,585	2,858	3,124	3,390	3,655	3,920
40	937	1,330	1,722	2,081	2,440	2,732	3,025	3,301	3,577	3,858	4,140

TABLE 32.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	50	66	83	95	107	-----	-----	-----	-----	-----	-----
11	62	84	105	122	138	-----	-----	-----	-----	-----	-----
12	75	101	127	148	169	183	197	-----	-----	-----	-----
13	90	122	155	182	208	226	243	-----	-----	-----	-----
14	106	144	183	214	246	268	289	-----	-----	-----	-----
15	123	168	212	250	288	316	343	-----	-----	-----	-----
16	140	191	242	286	330	364	397	-----	-----	-----	-----
17	160	220	280	331	382	421	460	-----	-----	-----	-----
18	181	249	317	375	433	478	524	-----	-----	-----	-----
19	204	281	358	425	492	543	594	-----	-----	-----	-----
20	227	314	400	475	550	608	665	714	764	-----	-----
21	252	350	447	532	616	682	747	804	862	-----	-----
22	278	386	494	588	681	755	829	894	960	-----	-----
23	306	426	546	650	754	836	917	992	1,068	-----	-----
24	334	466	597	712	828	916	1,005	1,091	1,177	-----	-----
25	363	506	650	776	902	1,002	1,101	1,196	1,290	-----	-----
26	392	548	703	840	976	1,086	1,197	1,300	1,404	-----	-----
27	425	594	764	914	1,064	1,184	1,304	1,418	1,533	-----	-----
28	458	642	825	988	1,151	1,280	1,410	1,536	1,662	1,775	1,888
29	494	693	892	1,068	1,244	1,384	1,524	1,664	1,804	1,933	2,062
30	530	744	958	1,148	1,338	1,488	1,638	1,792	1,945	2,091	2,237
31	568	798	1,028	1,234	1,441	1,606	1,770	1,932	2,094	2,256	2,418
32	606	852	1,099	1,322	1,544	1,723	1,902	2,073	2,244	2,421	2,598
33	647	911	1,175	1,414	1,653	1,846	2,038	2,222	2,406	2,600	2,794
34	688	970	1,251	1,506	1,762	1,968	2,173	2,370	2,568	2,779	2,990
35	729	1,029	1,329	1,602	1,874	2,093	2,312	2,524	2,736	2,956	3,177
36	770	1,088	1,407	1,696	1,985	2,218	2,452	2,678	2,905	3,134	3,364
37	816	1,154	1,492	1,802	2,113	2,361	2,609	2,854	3,100	3,342	3,584
38	862	1,220	1,578	1,910	2,241	2,504	2,766	3,030	3,294	3,550	3,805
39	910	1,290	1,671	2,022	2,372	2,654	2,935	3,210	3,484	3,756	4,028
40	959	1,362	1,764	2,133	2,502	2,803	3,104	3,388	3,673	3,962	4,251

TABLE 33.—*Gross volume of tree, International ¼-inch rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	51	68	85	98	110	-----	-----	-----	-----	-----	-----
11	64	86	108	125	142	-----	-----	-----	-----	-----	-----
12	77	104	131	152	174	188	202	-----	-----	-----	-----
13	92	125	158	185	212	230	249	-----	-----	-----	-----
14	108	147	186	218	250	273	296	-----	-----	-----	-----
15	126	172	218	257	296	325	354	-----	-----	-----	-----
16	144	197	250	296	341	376	411	-----	-----	-----	-----
17	164	226	288	340	393	434	475	-----	-----	-----	-----
18	185	255	325	385	445	492	539	-----	-----	-----	-----
19	208	288	368	436	504	558	612	-----	-----	-----	-----
20	232	321	410	487	564	624	684	734	784	-----	-----
21	258	358	458	544	630	698	767	826	884	-----	-----
22	284	394	505	601	697	774	850	917	984	-----	-----
23	312	435	558	665	772	855	938	1,016	1,094	-----	-----
24	341	476	610	728	846	936	1,027	1,116	1,204	-----	-----
25	372	520	667	796	926	1,028	1,131	1,228	1,326	-----	-----
26	403	564	724	865	1,006	1,120	1,235	1,342	1,449	-----	-----
27	436	611	786	940	1,095	1,218	1,342	1,461	1,580	-----	-----
28	470	659	848	1,016	1,184	1,317	1,450	1,580	1,711	1,828	1,945
29	506	710	914	1,096	1,278	1,422	1,566	1,710	1,854	1,988	2,122
30	542	762	981	1,176	1,371	1,526	1,681	1,839	1,997	2,148	2,299
31	581	817	1,053	1,264	1,476	1,646	1,816	1,982	2,148	2,315	2,482
32	620	872	1,125	1,354	1,582	1,766	1,950	2,124	2,299	2,482	2,665
33	661	932	1,202	1,447	1,692	1,889	2,086	2,275	2,464	2,664	2,864
34	702	990	1,278	1,540	1,801	2,012	2,223	2,426	2,628	2,845	3,062
35	746	1,054	1,362	1,642	1,921	2,147	2,373	2,592	2,810	3,037	3,264
36	790	1,118	1,446	1,744	2,041	2,282	2,523	2,757	2,991	3,228	3,465
37	836	1,184	1,532	1,851	2,170	2,426	2,682	2,935	3,188	3,438	3,689
38	883	1,251	1,619	1,960	2,300	2,570	2,841	3,113	3,385	3,649	3,913
39	932	1,322	1,713	2,072	2,432	2,722	3,012	3,294	3,577	3,858	4,138
40	981	1,394	1,807	2,186	2,564	2,874	3,184	3,476	3,769	4,066	4,364

Scribner Log Rule

(Form Class 65-90)

TABLE 34.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	16	19	22	-----	-----	-----	-----	-----	-----	-----	-----
11	22	27	32	-----	-----	-----	-----	-----	-----	-----	-----
12	28	35	42	46	50	-----	-----	-----	-----	-----	-----
13	36	45	54	60	66	-----	-----	-----	-----	-----	-----
14	43	55	67	75	83	-----	-----	-----	-----	-----	-----
15	52	67	82	93	104	-----	-----	-----	-----	-----	-----
16	61	79	97	111	125	133	141	-----	-----	-----	-----
17	71	92	114	131	148	158	168	-----	-----	-----	-----
18	81	106	132	151	170	183	196	-----	-----	-----	-----
19	92	122	152	175	198	213	228	-----	-----	-----	-----
20	104	138	173	200	226	243	260	273	286	-----	-----
21	116	156	195	226	256	276	297	314	330	-----	-----
22	129	173	217	252	287	310	334	354	375	-----	-----
23	143	192	242	282	322	348	373	398	424	-----	-----
24	157	212	267	312	356	384	412	442	472	-----	-----
25	172	233	294	344	393	426	460	492	525	-----	-----
26	187	254	320	375	430	468	507	542	578	-----	-----
27	204	277	350	411	472	514	556	596	637	-----	-----
28	221	300	380	446	513	559	605	650	696	737	778
29	239	326	412	484	557	606	656	708	760	808	857
30	257	350	444	522	601	654	708	766	825	880	936
31	276	378	479	565	651	711	771	832	894	957	1,020
32	296	405	514	608	701	768	834	898	962	1,033	1,104
33	316	434	551	652	753	826	898	967	1,036	1,114	1,193
34	337	462	588	696	805	883	961	1,036	1.110	1,196	1,282
35	360	495	630	747	864	948	1,032	1,113	1,194	1,284	1,373
36	382	527	672	797	922	1,012	1,102	1,190	1,279	1,372	1,464
37	406	560	714	850	986	1,082	1,178	1,275	1,372	1,470	1,568
38	429	592	756	902	1,049	1,151	1,253	1,358	1,464	1,568	1,672
39	454	628	803	958	1,113	1,224	1,334	1,443	1,552	1,663	1,774
40	478	664	850	1,014	1,177	1,296	1,414	1,526	1,639	1,757	1,875

TABLE 35.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	17	20	24	-----	-----	-----	-----	-----	-----	-----	-----
11	23	28	34	-----	-----	-----	-----	-----	-----	-----	-----
12	29	36	44	48	52	-----	-----	-----	-----	-----	-----
13	37	47	57	64	70	-----	-----	-----	-----	-----	-----
14	45	58	70	78	87	-----	-----	-----	-----	-----	-----
15	54	70	86	98	109	-----	-----	-----	-----	-----	-----
16	64	83	102	116	131	140	149	-----	-----	-----	-----
17	74	97	120	138	156	167	178	-----	-----	-----	-----
18	84	111	138	159	180	194	207	-----	-----	-----	-----
19	96	128	159	184	208	224	240	-----	-----	-----	-----
20	108	144	180	208	236	254	272	286	300	-----	-----
21	120	161	202	234	267	288	310	327	344	-----	-----
22	133	178	224	261	298	323	348	368	388	-----	-----
23	147	198	249	290	332	360	387	412	438	-----	-----
24	161	218	274	320	367	396	426	456	487	-----	-----
25	178	241	304	356	408	443	478	512	546	----	-----
26	194	264	334	391	448	489	530	568	606	-----	-----
27	212	288	364	428	491	536	580	623	666	-----	-----
28	229	312	395	464	534	582	630	678	727	770	814
29	248	338	428	504	579	632	684	738	793	844	896
30	266	363	460	542	624	681	738	798	859	918	978
31	286	391	496	585	674	738	802	866	930	996	1,061
32	305	418	532	628	725	795	865	932	1,000	1,072	1,144
33	326	448	570	674	779	854	930	1,003	1,076	1,156	1,236
34	348	478	608	720	833	914	996	1,074	1,152	1,240	1,329
35	372	513	654	775	896	985	1,074	1,159	1,244	1,337	1,430
36	397	548	699	830	960	1,056	1,151	1,244	1,336	1,434	1,532
37	420	581	742	884	1,025	1,126	1,227	1,328	1,430	1,534	1,637
38	444	614	784	937	1,090	1,196	1,303	1,414	1,525	1,634	1,742
39	469	650	832	993	1,154	1,270	1,386	1,500	1,614	1,730	1,847
40	494	687	880	1,049	1,218	1,344	1,470	1,587	1,704	1,828	1,952

TABLE 36.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	18	22	26	-----	-----	-----	-----	-----	-----	-----	-----
11	24	30	36	-----	-----	-----	-----	-----	-----	-----	-----
12	30	38	46	50	55	-----	-----	-----	-----	-----	-----
13	38	49	60	67	74	-----	-----	-----	-----	-----	-----
14	47	60	74	84	93	-----	-----	-----	-----	-----	-----
15	56	73	90	102	114	-----	-----	-----	-----	-----	-----
16	66	86	105	120	136	145	154	-----	-----	-----	-----
17	77	100	124	143	162	174	186	-----	-----	-----	-----
18	88	116	144	166	189	204	218	-----	-----	-----	-----
19	100	132	165	190	216	233	250	-----	-----	-----	-----
20	111	148	186	215	244	264	283	298	314	-----	-----
21	124	166	209	242	276	299	322	340	359	-----	-----
22	137	184	232	270	308	334	361	382	404	-----	-----
23	152	206	260	303	346	375	404	432	459	-----	-----
24	168	228	287	336	385	416	448	481	514	-----	-----
25	184	250	315	370	424	461	498	534	570	-----	-----
26	199	271	343	402	462	504	547	586	625	-----	-----
27	218	297	376	442	508	555	602	647	692	-----	-----
28	237	324	410	482	555	606	657	708	758	804	851
29	256	350	444	523	602	657	712	769	826	880	934
30	275	376	477	562	648	708	768	832	895	956	1,017
31	294	403	512	606	699	766	832	899	966	1,034	1,102
32	314	431	548	649	750	823	896	966	1,036	1,112	1,188
33	338	464	590	700	810	889	968	1,044	1,120	1,205	1,290
34	361	497	633	752	870	955	1,040	1,122	1,204	1,298	1,393
35	384	530	675	802	929	1,021	1,113	1,202	1,291	1,388	1,486
36	406	562	717	852	988	1,087	1,186	1,282	1,378	1,479	1,580
37	433	600	766	913	1,060	1,166	1,271	1,377	1,483	1,590	1,698
38	460	637	814	973	1,132	1,244	1,356	1,472	1,588	1,702	1,815
39	485	674	862	1,030	1,198	1,319	1,440	1,560	1,680	1,800	1,920
40	510	710	910	1,086	1,263	1,393	1,523	1,647	1,771	1,898	2,026

TABLE 37.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	19	23	27	-----	-----	-----	-----	-----	-----	-----	-----
11	26	32	38	-----	-----	-----	-----	-----	-----	-----	-----
12	32	40	49	54	60	-----	-----	-----	-----	-----	-----
13	40	51	62	70	78	-----	-----	-----	-----	-----	-----
14	48	62	76	86	95	-----	-----	-----	-----	-----	-----
15	58	76	94	106	119	-----	-----	-----	-----	-----	-----
16	69	90	111	127	143	153	163	-----	-----	-----	-----
17	80	105	130	149	168	181	194	-----	-----	-----	-----
18	90	119	148	170	193	209	225	-----	-----	-----	-----
19	102	136	170	197	224	242	260	-----	-----	-----	-----
20	115	154	193	224	254	275	296	312	328	-----	-----
21	130	174	219	254	290	314	339	359	379	-----	-----
22	144	194	245	286	326	354	382	406	430	-----	-----
23	158	214	270	316	362	393	424	452	480	-----	-----
24	173	234	296	346	397	431	465	498	531	-----	-----
25	190	258	326	382	439	479	519	556	594	-----	-----
26	207	282	357	419	481	527	573	614	656	-----	-----
27	225	306	388	456	525	574	624	672	719	-----	-----
28	243	332	420	494	569	622	676	729	782	829	876
29	264	360	457	538	620	678	736	796	856	912	968
30	284	389	494	583	672	734	797	863	929	994	1,059
31	306	420	533	630	728	798	868	938	1,008	1,080	1,152
32	327	450	572	678	784	862	939	1,013	1,087	1,166	1,246
33	350	481	612	726	841	924	1,007	1,086	1,166	1,255	1,344
34	372	512	653	776	898	986	1,075	1,160	1,246	1,344	1,442
35	397	548	699	832	964	1,060	1,156	1,250	1,343	1,444	1,546
36	422	584	745	888	1,030	1,134	1,237	1,338	1,440	1,545	1,650
37	447	619	791	944	1,098	1,207	1,316	1,427	1,538	1,649	1,760
38	472	654	837	1,001	1,165	1,280	1,396	1,516	1,636	1,753	1,870
39	499	694	888	1,062	1,236	1,362	1,488	1,612	1,737	1,862	1,987
40	526	733	940	1,123	1,306	1,443	1,580	1,709	1,838	1,971	2,104

TABLE 38.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	20	24	29	-----	-----	-----	-----	-----	-----	-----	-----
11	26	33	40	-----	-----	-----	-----	-----	-----	-----	-----
12	33	42	51	57	63	-----	-----	-----	-----	-----	-----
13	42	54	66	74	82	-----	-----	-----	-----	-----	-----
14	51	66	81	92	102	108	114	-----	-----	-----	-----
15	60	78	97	110	124	132	140	-----	-----	-----	-----
16	70	92	113	130	146	156	167	-----	-----	-----	-----
17	82	108	134	154	174	188	201	-----	-----	-----	-----
18	93	124	154	178	202	218	235	-----	-----	-----	-----
19	106	142	177	206	234	253	272	-----	-----	-----	-----
20	119	160	200	232	265	288	308	326	343	-----	-----
21	134	108	226	263	300	326	352	373	394	-----	-----
22	148	200	252	294	336	366	396	420	445	-----	-----
23	164	222	280	328	376	409	442	472	502	-----	-----
24	180	244	309	363	417	452	488	524	559	-----	-----
25	196	267	338	397	456	498	539	578	618	-----	-----
26	213	290	368	432	496	543	590	634	678	-----	-----
27	232	317	402	473	544	595	646	696	746	-----	-----
28	251	344	436	514	592	648	703	759	815	864	914
29	272	373	474	559	644	704	764	828	891	950	1,008
30	293	402	511	603	695	760	826	896	967	1,034	1,102
31	315	433	551	652	753	826	900	974	1,047	1,122	1,197
32	337	464	591	701	811	892	974	1,050	1,127	1,210	1,292
33	362	498	635	754	872	960	1,048	1,131	1,214	1,307	1,400
34	386	532	679	806	934	1,028	1,121	1,212	1,302	1,405	1,508
35	409	566	722	859	996	1,096	1,197	1,295	1,393	1,500	1,606
36	432	599	766	912	1,059	1,166	1,273	1,378	1,484	1,594	1,703
37	459	638	816	974	1,131	1,246	1,360	1,476	1,592	1,708	1,824
38	486	676	865	1,034	1,203	1,325	1,447	1,573	1,699	1,822	1,945
39	514	716	918	1,098	1,278	1,410	1,542	1,672	1,801	1,932	2,064
40	542	756	971	1,162	1,352	1,495	1,638	1,770	1,903	2,043	2,183

TABLE 39.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	21	26	31	-----	-----	-----	-----	-----	-----	-----	-----
11	28	35	42	-----	-----	-----	-----	-----	-----	-----	-----
12	34	44	53	60	66	-----	-----	-----	-----	-----	-----
13	43	56	68	77	86	-----	-----	-----	-----	-----	-----
14	52	68	83	94	105	111	117	-----	-----	-----	-----
15	63	82	102	116	130	139	148	-----	-----	-----	-----
16	74	97	120	138	155	166	178	-----	-----	-----	-----
17	86	113	140	162	184	198	212	-----	-----	-----	-----
18	97	129	161	186	212	229	246	-----	-----	-----	-----
19	110	147	184	214	244	264	284	-----	-----	-----	-----
20	123	165	207	241	275	298	321	339	357	-----	-----
21	138	186	234	273	312	339	366	388	410	-----	-----
22	153	207	261	304	348	379	410	436	463	-----	-----
23	169	230	290	340	389	423	457	488	520	-----	-----
24	185	252	318	374	430	467	504	540	577	-----	-----
25	203	276	350	412	474	517	560	601	642	-----	-----
26	221	302	382	450	517	566	615	661	707	-----	-----
27	240	328	416	491	566	620	674	726	778	-----	-----
28	260	356	451	533	615	674	734	792	849	900	950
29	281	386	490	579	668	732	796	861	926	986	1,046
30	302	416	529	624	720	788	857	930	1,004	1,074	1,143
31	325	448	570	675	780	856	932	1,009	1,086	1,164	1,242
32	348	480	611	725	839	924	1,008	1,088	1,167	1,254	1,340
33	372	514	655	778	901	992	1,084	1,170	1,256	1,352	1,449
34	397	548	699	831	963	1,061	1,159	1,252	1,346	1,452	1,558
35	422	585	748	890	1,032	1,137	1,242	1,344	1,446	1,556	1,666
36	448	622	796	948	1,101	1,213	1,325	1,435	1,545	1,659	1,773
37	475	660	846	1,010	1,174	1,294	1,414	1,535	1,656	1,776	1,896
38	502	699	896	1,072	1,247	1,374	1,502	1,634	1,766	1,893	2,020
39	530	740	950	1,136	1,323	1,460	1,598	1,733	1,868	2,005	2,142
40	559	781	1,003	1,201	1,399	1,547	1,695	1,833	1,971	2,118	2,265

TABLE 40.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	22	27	32	-----	-----	-----	-----	-----	-----	-----	-----
11	29	36	44	-----	-----	-----	-----	-----	-----	-----	-----
12	36	46	56	62	69	-----	-----	-----	-----	-----	-----
13	45	58	71	80	90	-----	-----	-----	-----	-----	-----
14	54	70	86	98	110	116	122	-----	-----	-----	-----
15	66	86	106	121	136	146	155	-----	-----	-----	-----
16	77	101	125	144	163	176	188	-----	-----	-----	-----
17	89	118	146	169	192	207	222	-----	-----	-----	-----
18	101	134	168	195	222	240	257	-----	-----	-----	-----
19	114	153	192	223	254	275	296	-----	-----	-----	-----
20	127	171	215	250	286	310	335	354	373	-----	-----
21	142	192	242	282	322	351	380	403	426	-----	-----
22	157	212	268	314	359	392	425	452	480	-----	-----
23	173	235	297	348	400	436	472	505	538	-----	-----
24	189	258	326	384	441	480	520	558	596	-----	-----
25	209	286	362	426	490	535	580	624	668	-----	-----
26	229	313	397	468	538	590	641	690	739	-----	-----
27	249	340	432	510	589	646	702	757	812	-----	-----
28	269	368	468	554	640	702	763	824	884	938	991
29	290	398	506	599	692	758	825	894	962	1,026	1,089
30	311	428	545	644	744	816	887	964	1,041	1,114	1,187
31	334	461	588	697	806	885	964	1,044	1,124	1,206	1,288
32	358	494	630	748	867	954	1,042	1,124	1,207	1,298	1,388
33	382	528	674	802	929	1,024	1,118	1,208	1,298	1,398	1,498
34	406	562	717	854	991	1,092	1,193	1,290	1,388	1,498	1,607
35	435	603	771	919	1,067	1,176	1,286	1,392	1,498	1,613	1,728
36	464	644	825	984	1,143	1,261	1,379	1,494	1,608	1,728	1,849
37	491	682	874	1,046	1,217	1,342	1,468	1,594	1,720	1,846	1,973
38	518	721	924	1,108	1,291	1,424	1,558	1,696	1,833	1,965	2,097
39	546	763	980	1,174	1,367	1,512	1,656	1,796	1,937	2,080	2,222
40	575	805	1,035	1,239	1,443	1,598	1,754	1,898	2,041	2,194	2,347

TABLE 41.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	23	28	34	-----	-----	-----	-----	-----	-----	-----	-----
11	30	38	46	-----	-----	-----	-----	-----	-----	-----	-----
12	37	48	58	65	72	-----	-----	-----	-----	-----	-----
13	46	60	74	84	94	-----	-----	-----	-----	-----	-----
14	56	73	90	103	116	122	129	-----	-----	-----	-----
15	67	88	109	125	141	151	161	-----	-----	-----	-----
16	78	103	128	147	166	180	193	-----	-----	-----	-----
17	91	121	151	174	198	214	230	-----	-----	-----	-----
18	104	139	174	202	231	250	268	-----	-----	-----	-----
19	118	158	198	231	264	286	308	-----	-----	-----	-----
20	131	176	222	260	297	322	348	368	387	-----	-----
21	146	198	249	292	334	364	394	418	442	-----	-----
22	161	218	276	323	370	404	439	468	496	-----	-----
23	178	243	308	362	416	453	490	525	560	-----	-----
24	196	268	340	400	461	502	542	584	625	-----	-----
25	215	294	374	440	506	554	601	646	692	-----	-----
26	234	320	407	480	552	606	660	710	760	-----	-----
27	256	351	446	528	608	667	726	783	840	-----	-----
28	278	382	485	574	663	727	791	855	919	976	1,032
29	299	412	524	620	716	786	855	928	1,000	1,065	1,130
30	320	442	563	666	769	844	919	1,000	1,080	1,154	1,229
31	344	475	606	719	832	914	997	1,080	1,164	1,248	1,333
32	368	508	649	772	894	984	1,075	1,162	1,249	1,343	1,437
33	395	546	697	830	964	1,062	1,160	1,254	1,349	1,454	1,558
34	422	584	745	889	1,033	1,139	1,245	1,347	1,449	1,564	1,678
35	448	622	796	950	1,104	1,217	1,330	1,442	1,554	1,672	1,790
36	475	661	847	1,010	1,174	1,295	1,416	1,537	1,658	1,780	1,903
37	504	703	902	1,079	1,256	1,386	1,516	1,647	1,778	1,908	2,039
38	534	745	956	1,146	1,337	1,476	1,616	1,758	1,899	2,037	2,175
39	563	788	1,012	1,213	1,414	1,564	1,714	1,860	2,006	2,154	2,302
40	592	830	1,067	1,279	1,491	1,652	1,812	1,962	2,113	2,272	2,430

TABLE 42.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	24	30	36	-----	-----	-----	-----	-----	-----	-----	-----
11	32	40	49	-----	-----	-----	-----	-----	-----	-----	-----
12	39	50	62	69	76	-----	-----	-----	-----	-----	-----
13	48	63	78	88	98	-----	-----	-----	-----	-----	-----
14	58	76	94	107	120	127	134	-----	-----	-----	-----
15	70	92	114	131	148	158	169	-----	-----	-----	-----
16	81	107	133	154	175	190	204	-----	-----	-----	-----
17	94	125	156	180	205	222	239	-----	-----	-----	-----
18	106	142	178	206	235	254	274	-----	-----	-----	-----
19	120	162	204	238	271	294	318	-----	-----	-----	-----
20	135	182	230	268	307	334	362	382	402	-----	-----
21	152	206	260	304	348	380	412	437	462	-----	-----
22	168	228	289	338	388	425	462	492	523	-----	-----
23	185	252	320	376	431	472	512	548	584	-----	-----
24	202	276	350	412	474	518	561	603	645	-----	-----
25	222	304	386	455	524	574	624	672	720	-----	-----
26	243	333	423	498	574	631	688	742	795	-----	-----
27	264	362	460	543	626	688	750	809	868	-----	-----
28	284	390	497	588	679	745	811	876	942	1,001	1,060
29	307	423	539	638	737	810	882	956	1,030	1,099	1,168
30	330	456	581	688	795	874	952	1,035	1,118	1,196	1,275
31	356	492	628	745	862	949	1,036	1,124	1,211	1,300	1,389
32	382	528	675	802	930	1,026	1,121	1,212	1,304	1,404	1,503
33	407	564	720	858	996	1,098	1,201	1,300	1,399	1,508	1,618
34	432	599	766	914	1,062	1,172	1,281	1,388	1,494	1,613	1,732
35	461	641	821	980	1,138	1,257	1,376	1,492	1,608	1,732	1,856
36	490	683	876	1,045	1,214	1,342	1,471	1,596	1,721	1,850	1,980
37	518	722	927	1,110	1,292	1,428	1,565	1,700	1,835	1,972	2,108
38	546	762	978	1,174	1,371	1,515	1,659	1,804	1,949	2,092	2,236
39	578	809	1,040	1,248	1,455	1,611	1,767	1,918	2,069	2,222	2,375
40	611	856	1,101	1,320	1,539	1,707	1,875	2,032	2,189	2,352	2,514

TABLE 43.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	24	30	36	-----	-----	-----	-----	-----	-----	-----	-----
11	32	41	50	-----	-----	-----	-----	-----	-----	-----	-----
12	41	53	65	72	80	-----	-----	-----	-----	-----	-----
13	51	66	82	93	104	-----	-----	-----	-----	-----	-----
14	61	80	99	113	127	135	143	-----	-----	-----	-----
15	72	95	118	136	154	165	176	-----	-----	-----	-----
16	83	110	137	158	180	194	209	-----	-----	-----	-----
17	96	128	161	186	212	230	248	-----	-----	-----	-----
18	110	148	185	215	245	266	287	-----	-----	-----	-----
19	125	168	212	247	282	307	332	-----	-----	-----	-----
20	140	190	239	280	320	348	376	398	420	-----	-----
21	156	212	268	314	360	394	427	454	480	-----	-----
22	173	236	298	350	401	440	478	510	541	-----	-----
23	192	262	332	390	448	490	532	570	608	-----	-----
24	210	288	365	430	495	540	586	631	676	-----	-----
25	229	314	399	470	542	594	646	696	746	-----	-----
26	248	340	433	510	588	648	707	762	817	-----	-----
27	270	372	474	560	646	710	774	836	898	-----	-----
28	293	404	514	608	703	772	841	910	979	1,041	1,103
29	316	436	557	660	762	838	914	992	1,069	1,140	1,212
30	340	470	600	711	822	904	987	1,073	1,159	1,240	1,321
31	367	508	648	770	891	982	1,074	1,164	1,254	1,346	1,438
32	394	545	696	828	960	1,060	1,160	1,255	1,350	1,452	1,554
33	421	584	746	889	1,032	1,139	1,246	1,350	1,453	1,566	1,678
34	448	622	796	950	1,104	1,218	1,333	1,444	1,556	1,679	1,802
35	475	662	848	1,012	1,176	1,299	1,422	1,543	1,664	1,792	1,919
36	502	700	899	1,073	1,247	1,379	1,511	1,642	1,772	1,904	2,036
37	532	744	955	1,144	1,332	1,473	1,614	1,755	1,896	2,037	2,178
38	563	787	1,011	1,214	1,416	1,566	1,717	1,868	2,020	2,170	2,319
39	596	834	1,073	1,288	1,502	1,664	1,826	1,984	2,142	2,303	2,460
40	629	882	1,135	1,362	1,589	1,762	1,935	2,099	2,263	2,432	2,601

TABLE 44.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	25	32	38	-----	-----	-----	-----	-----	-----	-----	-----
11	34	43	52	-----	-----	-----	-----	-----	-----	-----	-----
12	42	54	66	74	83	-----	-----	-----	-----	-----	-----
13	52	68	84	96	107	-----	-----	-----	-----	-----	-----
14	63	82	102	116	131	140	148	-----	-----	-----	-----
15	74	98	122	141	160	172	184	-----	-----	-----	-----
16	86	114	142	165	188	204	220	-----	-----	-----	-----
17	100	133	166	193	220	240	260	-----	-----	-----	-----
18	113	152	191	222	253	276	299	-----	-----	-----	-----
19	128	173	218	255	292	318	344	-----	-----	-----	-----
20	144	195	246	288	331	360	389	412	435	-----	-----
21	160	218	276	324	372	406	441	470	498	-----	-----
22	177	242	306	360	413	453	493	526	560	-----	-----
23	196	268	340	401	462	505	548	588	629	-----	-----
24	216	296	375	442	510	556	603	650	698	-----	-----
25	236	324	412	486	560	615	670	722	774	-----	-----
26	257	352	448	530	611	674	736	794	851	-----	-----
27	280	385	490	580	669	736	804	869	934	-----	-----
28	302	416	531	629	727	800	872	944	1,017	1,080	1,144
29	326	451	576	682	789	868	946	1,027	1,108	1,183	1,258
30	351	486	620	736	851	936	1,021	1,110	1,199	1,286	1,373
31	377	522	667	794	920	1,014	1,108	1,202	1,296	1,392	1,488
32	403	558	714	851	988	1,092	1,195	1,294	1,392	1,497	1,602
33	432	599	766	914	1,062	1,174	1,285	1,391	1,497	1,614	1,730
34	460	639	818	976	1,135	1,255	1,375	1,488	1,602	1,730	1,859
35	489	681	873	1,043	1,213	1,342	1,472	1,596	1,720	1,853	1,986
36	518	723	928	1,110	1,291	1,430	1,568	1,704	1,839	1,976	2,114
37	548	767	986	1,182	1,377	1,524	1,671	1,818	1,965	2,112	2,258
38	579	811	1,043	1,253	1,463	1,618	1,774	1,932	2,091	2,246	2,402
39	613	860	1,106	1,328	1,550	1,718	1,887	2,050	2,214	2,379	2,544
40	647	908	1,169	1,403	1,637	1,818	2,000	2,168	2,337	2,512	2,687

TABLE 45.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	26	33	40	44	48	-----	-----	-----	-----	-----	-----
11	34	44	54	60	67	-----	-----	-----	-----	-----	-----
12	43	56	68	77	86	-----	-----	-----	-----	-----	-----
13	54	70	86	98	110	-----	-----	-----	-----	-----	-----
14	64	84	105	120	135	144	152	-----	-----	-----	-----
15	77	102	128	147	166	179	192	-----	-----	-----	-----
16	90	120	150	174	198	214	231	-----	-----	-----	-----
17	104	139	174	203	232	252	272	-----	-----	-----	-----
18	117	158	198	232	265	288	312	-----	-----	-----	-----
19	132	179	226	264	303	330	358	-----	-----	-----	-----
20	148	201	254	298	341	372	403	428	452	-----	-----
21	165	224	284	334	384	420	456	486	515	-----	-----
22	182	248	315	370	426	468	509	544	578	-----	-----
23	202	276	350	412	474	519	564	606	647	-----	-----
24	221	303	385	454	523	572	620	668	716	-----	-----
25	244	334	425	502	580	636	693	747	801	-----	-----
26	266	366	465	550	636	701	766	826	886	-----	-----
27	288	397	506	600	694	764	834	902	970	-----	-----
28	311	430	548	650	752	828	903	979	1, 055	1, 122	1, 188
29	336	465	594	704	815	896	978	1, 062	1, 147	1, 226	1, 304
30	361	500	639	758	878	966	1, 054	1, 146	1, 239	1, 329	1, 419
31	388	537	686	817	948	1, 046	1, 143	1, 240	1, 338	1, 426	1, 537
32	414	574	734	876	1, 018	1, 125	1, 232	1, 334	1, 437	1, 546	1, 655
33	443	615	787	940	1, 093	1, 208	1, 322	1, 434	1, 545	1, 665	1, 785
34	472	656	840	1, 004	1, 168	1, 290	1, 413	1, 533	1, 653	1, 784	1, 915
35	503	702	900	1, 076	1, 252	1, 386	1, 520	1, 649	1, 778	1, 916	2, 054
36	534	747	960	1, 148	1, 337	1, 482	1, 626	1, 765	1, 904	2, 048	2, 192
37	566	792	1, 018	1, 221	1, 424	1, 577	1, 730	1, 882	2, 035	2, 186	2, 338
38	597	836	1, 075	1, 292	1, 510	1, 672	1, 835	2, 000	2, 166	2, 326	2, 485
39	631	885	1, 139	1, 369	1, 599	1, 774	1, 950	2, 120	2, 291	2, 462	2, 632
40	665	934	1, 203	1, 446	1, 688	1, 876	2, 064	2, 240	2, 416	2, 597	2, 778

TABLE 46.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	27	34	42	46	49	-----	-----	-----	-----	-----	-----
11	36	46	56	63	70	-----	-----	-----	-----	-----	-----
12	45	58	71	80	90	-----	-----	-----	-----	-----	-----
13	56	73	90	103	116	-----	-----	-----	-----	-----	-----
14	67	88	110	126	142	152	161	-----	-----	-----	-----
15	79	105	131	152	172	185	198	-----	-----	-----	-----
16	91	122	152	176	201	218	235	-----	-----	-----	-----
17	106	142	178	208	238	259	280	-----	-----	-----	-----
18	121	163	205	240	275	300	325	-----	-----	-----	-----
19	137	186	234	274	314	343	372	-----	-----	-----	-----
20	153	208	263	308	353	386	418	444	470	-----	-----
21	170	232	294	345	396	434	472	503	534	-----	-----
22	187	256	324	382	439	482	525	561	597	-----	-----
23	208	285	362	427	492	539	586	630	673	-----	-----
24	229	314	400	472	544	596	648	698	749	-----	-----
25	250	344	438	518	598	657	716	772	829	-----	-----
26	272	374	476	564	651	718	785	847	909	-----	-----
27	296	408	520	617	714	787	860	931	1,002	-----	-----
28	320	442	565	671	777	856	936	1,015	1,094	1,162	1,231
29	346	479	612	727	842	928	1,013	1,100	1,188	1,268	1,349
30	372	516	659	782	906	998	1,090	1,186	1,282	1,374	1,467
31	399	554	708	843	978	1,079	1,180	1,281	1,382	1,485	1,588
32	426	591	756	902	1,049	1,160	1,271	1,377	1,483	1,596	1,709
33	456	634	812	970	1,128	1,248	1,368	1,484	1,599	1,724	1,850
34	486	677	868	1,037	1,206	1,336	1,465	1,590	1,715	1,852	1,990
35	516	720	925	1,106	1,288	1,428	1,567	1,700	1,834	1,978	2,122
36	546	764	982	1,176	1,371	1,520	1,669	1,812	1,954	2,104	2,254
37	580	813	1,046	1,256	1,465	1,624	1,782	1,940	2,098	2,256	2,413
38	615	862	1,109	1,334	1,559	1,727	1,895	2,068	2,241	2,406	2,572
39	649	911	1,173	1,410	1,648	1,830	2,011	2,190	2,368	2,544	2,721
40	683	960	1,237	1,488	1,738	1,932	2,127	2,310	2,494	2,682	2,870

TABLE 47.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	28	36	44	48	52	-----	-----	-----	-----	-----	-----
11	38	49	60	67	74	-----	-----	-----	-----	-----	-----
12	47	61	75	85	95	100	106	-----	-----	-----	-----
13	58	76	94	107	120	128	136	-----	-----	-----	-----
14	69	92	114	130	146	156	166	-----	-----	-----	-----
15	82	109	136	157	178	192	206	-----	-----	-----	-----
16	95	127	159	185	211	229	247	-----	-----	-----	-----
17	109	146	184	215	246	268	289	-----	-----	-----	-----
18	123	166	209	244	280	306	331	-----	-----	-----	-----
19	140	190	240	281	322	352	382	-----	-----	-----	-----
20	157	214	270	317	364	398	432	459	486	-----	-----
21	176	240	304	358	411	450	490	523	556	-----	-----
22	194	266	338	398	458	504	549	588	626	-----	-----
23	214	294	374	441	508	558	607	652	698	-----	-----
24	234	322	409	484	558	611	665	718	770	-----	-----
25	258	355	452	534	617	678	740	799	858	-----	-----
26	281	388	494	585	676	745	814	880	945	-----	-----
27	304	420	536	636	736	811	886	959	1,032	-----	-----
28	327	452	578	686	795	877	959	1,040	1,120	1,190	1,261
29	354	491	628	746	864	953	1,042	1,132	1,222	1,306	1,389
30	382	530	678	806	933	1,028	1,124	1,224	1,325	1,421	1,517
31	411	571	731	871	1,011	1,117	1,223	1,328	1,434	1,541	1,648
32	440	612	784	936	1,089	1,206	1,322	1,432	1,543	1,661	1,779
33	469	654	838	1,001	1,164	1,289	1,414	1,534	1,654	1,783	1,912
34	498	695	892	1,066	1,239	1,373	1,507	1,636	1,766	1,906	2,046
35	530	742	954	1,141	1,328	1,473	1,618	1,757	1,896	2,044	2,192
36	563	789	1,015	1,216	1,416	1,572	1,728	1,877	2,026	2,182	2,338
37	596	836	1,075	1,290	1,506	1,670	1,835	1,998	2,160	2,324	2,488
38	629	882	1,135	1,366	1,596	1,769	1,942	2,118	2,295	2,466	2,637
39	666	935	1,204	1,449	1,694	1,881	2,068	2,251	2,434	2,616	2,799
40	703	988	1,274	1,532	1,791	1,993	2,195	2,384	2,574	2,768	2,961

TABLE 48.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	29	37	45	50	55	-----	-----	-----	-----	-----	-----
11	38	50	61	68	76	-----	-----	-----	-----	-----	-----
12	48	62	77	88	98	104	109	-----	-----	-----	-----
13	60	79	98	112	126	134	142	-----	-----	-----	-----
14	72	96	119	136	154	165	176	-----	-----	-----	-----
15	84	112	141	163	185	200	214	-----	-----	-----	-----
16	97	130	163	190	216	234	253	-----	-----	-----	-----
17	112	151	190	222	254	276	299	-----	-----	-----	-----
18	127	172	217	254	291	318	345	-----	-----	-----	-----
19	144	196	248	291	334	365	396	-----	-----	-----	-----
20	161	220	278	327	376	412	447	475	503	-----	-----
21	180	246	312	368	424	465	506	540	574	-----	-----
22	199	273	347	409	471	518	566	606	645	-----	-----
23	221	304	386	456	526	578	630	678	725	-----	-----
24	243	334	425	503	581	638	694	750	805	-----	-----
25	265	365	465	550	636	700	764	826	888	-----	-----
26	287	396	505	598	691	763	835	902	970	-----	-----
27	312	432	551	654	756	835	914	990	1,065	-----	-----
28	337	467	597	710	822	907	992	1,076	1,160	1,234	1,307
29	366	507	648	770	892	985	1,078	1,172	1,266	1,352	1,438
30	394	546	699	830	962	1,062	1,163	1,267	1,371	1,470	1,568
31	423	588	752	897	1,042	1,152	1,263	1,372	1,480	1,591	1,702
32	452	629	806	964	1,121	1,242	1,363	1,476	1,590	1,712	1,835
33	483	673	863	1,032	1,202	1,332	1,463	1,588	1,712	1,846	1,981
34	514	717	920	1,102	1,283	1,423	1,563	1,698	1,833	1,980	2,127
35	544	762	980	1,174	1,367	1,516	1,666	1,811	1,956	2,110	2,264
36	575	807	1,039	1,245	1,451	1,610	1,770	1,924	2,079	2,240	2,401
37	611	858	1,104	1,326	1,548	1,718	1,888	2,056	2,225	2,394	2,563
38	647	908	1,169	1,407	1,645	1,826	2,007	2,189	2,371	2,548	2,725
39	684	962	1,239	1,492	1,744	1,940	2,135	2,324	2,512	2,702	2,891
40	722	1,016	1,309	1,576	1,844	2,054	2,263	2,458	2,654	2,856	3,057

TABLE 49.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	30	38	47	52	57	-----	-----	-----	-----	-----	-----
11	40	52	64	72	80	-----	-----	-----	-----	-----	-----
12	50	65	80	91	102	108	115	-----	-----	-----	-----
13	62	82	101	116	130	139	148	-----	-----	-----	-----
14	74	98	122	140	158	170	181	-----	-----	-----	-----
15	88	117	146	169	192	208	223	-----	-----	-----	-----
16	101	136	170	198	226	246	265	-----	-----	-----	-----
17	116	156	197	230	264	288	312	-----	-----	-----	-----
18	131	178	224	263	302	330	359	-----	-----	-----	-----
19	148	202	256	300	345	378	411	-----	-----	-----	-----
20	166	226	287	338	388	426	463	492	522	-----	-----
21	185	254	322	379	436	480	523	558	594	-----	-----
22	204	280	357	420	484	534	583	624	666	-----	-----
23	226	311	396	468	540	594	648	697	746	-----	-----
24	248	342	435	515	595	654	712	770	827	-----	-----
25	272	376	479	568	656	722	788	852	917	-----	-----
26	296	410	523	620	716	790	865	936	1,007	-----	-----
27	322	446	570	677	784	865	946	1,025	1,104	-----	-----
28	348	482	617	734	851	940	1,028	1,114	1,200	1,278	1,357
29	376	522	667	794	921	1,017	1,113	1,210	1,306	1,396	1,487
30	403	560	717	854	991	1,094	1,198	1,306	1,413	1,515	1,617
31	434	604	773	922	1,072	1,186	1,300	1,413	1,526	1,640	1,755
32	464	646	829	991	1,153	1,278	1,402	1,520	1,639	1,766	1,893
33	495	690	886	1,061	1,236	1,370	1,504	1,632	1,761	1,900	2,038
34	526	735	944	1,131	1,318	1,462	1,607	1,745	1,883	2,034	2,184
35	559	783	1,007	1,208	1,408	1,563	1,718	1,868	2,018	2,175	2,332
36	592	831	1,070	1,284	1,498	1,664	1,830	1,992	2,153	2,317	2,481
37	628	882	1,136	1,366	1,597	1,774	1,950	2,126	2,302	2,475	2,648
38	665	934	1,203	1,450	1,696	1,883	2,070	2,260	2,451	2,634	2,816
39	703	989	1,275	1,536	1,796	1,998	2,200	2,396	2,593	2,788	2,984
40	741	1,044	1,347	1,622	1,897	2,113	2,329	2,532	2,735	2,944	3,153

TABLE 50.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	31	40	49	54	60	-----	-----	-----	-----	-----	-----
11	41	54	66	74	82	-----	-----	-----	-----	-----	-----
12	51	66	82	94	105	112	119	-----	-----	-----	-----
13	63	84	104	119	134	143	152	-----	-----	-----	-----
14	75	100	125	144	162	174	185	-----	-----	-----	-----
15	90	120	150	174	198	214	230	-----	-----	-----	-----
16	100	140	176	205	234	255	276	-----	-----	-----	-----
17	124	162	204	239	274	299	324	-----	-----	-----	-----
18	135	184	232	272	313	342	372	-----	-----	-----	-----
19	153	208	264	310	357	392	426	-----	-----	-----	-----
20	171	234	296	348	401	440	479	509	539	-----	-----
21	190	261	332	391	450	495	540	576	613	-----	-----
22	210	288	367	433	499	550	600	644	687	-----	-----
23	232	319	406	480	555	610	666	717	768	-----	-----
24	254	350	445	528	611	672	732	791	850	-----	-----
25	280	386	492	584	676	745	814	881	948	-----	-----
26	305	422	539	640	740	818	896	970	1,045	-----	-----
27	332	460	588	698	809	894	978	1,060	1,143	-----	-----
28	358	497	636	757	878	970	1,061	1,151	1,241	1,323	1,405
29	386	536	686	818	950	1,049	1,148	1,249	1,350	1,444	1,538
30	414	576	737	879	1,021	1,128	1,234	1,347	1,460	1,566	1,671
31	444	619	794	948	1,102	1,219	1,336	1,455	1,574	1,692	1,809
32	475	662	850	1,016	1,183	1,311	1,439	1,563	1,687	1,817	1,947
33	506	707	908	1,088	1,268	1,406	1,544	1,676	1,809	1,953	2,097
34	538	752	967	1,160	1,352	1,501	1,650	1,790	1,931	2,089	2,247
35	574	805	1,036	1,243	1,450	1,610	1,770	1,925	2,080	2,244	2,408
36	611	858	1,105	1,326	1,547	1,719	1,891	2,060	2,228	2,399	2,570
37	647	909	1,171	1,408	1,646	1,830	2,013	2,196	2,378	2,558	2,739
38	683	960	1,237	1,491	1,745	1,940	2,135	2,332	2,528	2,718	2,908
39	722	1,016	1,311	1,580	1,848	2,057	2,266	2,470	2,673	2,876	3,080
40	761	1,073	1,385	1,668	1,951	2,174	2,398	2,608	2,818	3,036	3,253

TABLE 51.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	32	42	51	57	63	-----	-----	-----	-----	-----	-----
11	42	55	68	77	86	-----	-----	-----	-----	-----	-----
12	52	68	84	96	109	116	122	-----	-----	-----	-----
13	65	86	107	124	140	150	159	-----	-----	-----	-----
14	78	104	130	150	170	183	196	-----	-----	-----	-----
15	92	124	155	180	205	222	239	-----	-----	-----	-----
16	106	143	180	210	240	261	282	-----	-----	-----	-----
17	123	166	210	246	282	308	334	-----	-----	-----	-----
18	140	190	241	283	325	356	386	-----	-----	-----	-----
19	158	215	272	320	369	404	440	-----	-----	-----	-----
20	175	240	304	358	413	454	494	526	557	-----	-----
21	196	268	340	402	464	510	556	594	632	-----	-----
22	216	296	377	446	514	566	619	664	708	-----	-----
23	240	330	420	497	574	632	690	743	796	-----	-----
24	263	362	462	548	635	698	761	823	885	-----	-----
25	287	396	506	601	696	768	840	909	978	-----	-----
26	311	431	551	654	756	838	919	995	1,071	-----	-----
27	340	472	603	716	830	919	1,008	1,092	1,177	-----	-----
28	368	512	655	780	904	1,000	1,096	1,190	1,283	1,368	1,452
29	397	552	708	843	978	1,082	1,185	1,290	1,394	1,492	1,589
30	426	593	760	906	1,052	1,163	1,274	1,389	1,504	1,615	1,726
31	456	636	816	974	1,132	1,255	1,378	1,499	1,620	1,742	1,865
32	486	679	872	1,042	1,213	1,348	1,482	1,609	1,736	1,870	2,004
33	520	728	935	1,120	1,306	1,450	1,594	1,732	1,869	2,018	2,166
34	554	776	998	1,198	1,398	1,552	1,707	1,854	2,002	2,166	2,329
35	589	826	1,064	1,278	1,491	1,656	1,822	1,982	2,142	2,312	2,481
36	624	877	1,130	1,357	1,584	1,760	1,937	2,110	2,282	2,458	2,633
37	664	933	1,202	1,447	1,692	1,881	2,070	2,258	2,446	2,632	2,818
38	703	988	1,274	1,536	1,799	2,001	2,203	2,406	2,610	2,806	3,002
39	742	1,045	1,348	1,625	1,902	2,118	2,335	2,546	2,756	2,966	3,176
40	780	1,101	1,422	1,713	2,004	2,236	2,467	2,685	2,903	3,126	3,349

TABLE 52.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	33	43	53	59	65	-----	-----	-----	-----	-----	-----
11	44	58	71	80	90	-----	-----	-----	-----	-----	-----
12	55	72	89	102	116	124	131	-----	-----	-----	-----
13	68	90	112	129	146	156	166	-----	-----	-----	-----
14	80	107	134	154	175	188	202	-----	-----	-----	-----
15	95	128	160	186	212	230	248	-----	-----	-----	-----
16	110	148	187	218	249	272	295	-----	-----	-----	-----
17	126	171	216	253	290	317	344	-----	-----	-----	-----
18	142	193	244	287	330	361	392	-----	-----	-----	-----
19	161	220	278	328	378	414	450	-----	-----	-----	-----
20	180	246	313	370	426	468	509	542	576	-----	-----
21	202	277	352	416	480	529	578	618	658	-----	-----
22	224	308	392	463	534	590	646	694	741	-----	-----
23	246	339	432	512	592	653	714	769	824	-----	-----
24	269	371	473	562	651	716	782	845	908	-----	-----
25	294	407	520	618	716	791	866	937	1,008	-----	-----
26	320	444	568	675	782	866	951	1,030	1,108	-----	-----
27	348	483	618	735	852	943	1,034	1,122	1,210	-----	-----
28	375	522	668	796	923	1,020	1,118	1,216	1,313	1,400	1,486
29	406	565	724	863	1,002	1,108	1,214	1,323	1,432	1,532	1,632
30	436	608	780	931	1,082	1,196	1,311	1,431	1,551	1,664	1,777
31	469	655	841	1,006	1,170	1,297	1,424	1,550	1,677	1,804	1,930
32	502	702	902	1,080	1,258	1,398	1,537	1,670	1,803	1,942	2,082
33	534	748	962	1,153	1,344	1,494	1,644	1,787	1,930	2,084	2,238
34	567	795	1,023	1,227	1,431	1,591	1,751	1,904	2,056	2,224	2,393
35	604	849	1,094	1,313	1,532	1,704	1,876	2,042	2,207	2,382	2,558
36	642	903	1,164	1,398	1,632	1,817	2,002	2,180	2,358	2,540	2,722
37	680	956	1,232	1,484	1,736	1,932	2,128	2,321	2,514	2,706	2,898
38	717	1,008	1,300	1,570	1,839	2,046	2,254	2,462	2,670	2,872	3,074
39	758	1,069	1,380	1,665	1,950	2,173	2,396	2,613	2,830	3,046	3,262
40	800	1,130	1,460	1,760	2,060	2,300	2,539	2,764	2,989	3,220	3,450

TABLE 53.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	34	44	55	62	68	-----	-----	-----	-----	-----	-----
11	45	60	74	84	94	-----	-----	-----	-----	-----	-----
12	56	74	92	106	119	126	134	-----	-----	-----	-----
13	70	93	116	134	151	162	173	-----	-----	-----	-----
14	83	111	139	161	183	198	212	-----	-----	-----	-----
15	97	130	164	191	218	238	256	-----	-----	-----	-----
16	111	150	189	221	253	277	301	-----	-----	-----	-----
17	128	174	220	258	296	325	354	-----	-----	-----	-----
18	146	199	252	296	340	374	407	-----	-----	-----	-----
19	166	226	287	338	390	428	467	-----	-----	-----	-----
20	185	254	322	380	439	483	527	561	595	-----	-----
21	207	284	362	428	494	544	595	636	678	-----	-----
22	229	316	402	475	548	606	663	712	761	-----	-----
23	254	350	446	529	612	674	736	794	852	-----	-----
24	278	384	491	584	676	743	810	877	944	-----	-----
25	302	419	536	637	738	815	892	966	1,040	-----	-----
26	327	454	581	690	800	887	974	1,055	1,136	-----	-----
27	356	495	634	755	876	970	1,064	1,155	1,246	-----	-----
28	386	537	688	820	951	1,053	1,155	1,256	1,357	1,446	1,535
29	417	581	745	888	1,032	1,143	1,254	1,366	1,477	1,580	1,684
30	448	625	802	958	1,113	1,232	1,352	1,474	1,597	1,715	1,833
31	481	672	863	1,032	1,202	1,334	1,466	1,596	1,726	1,857	1,988
32	514	719	924	1,107	1,290	1,435	1,580	1,717	1,854	1,998	2,142
33	548	769	990	1,187	1,384	1,539	1,694	1,842	1,991	2,150	2,308
34	583	819	1,055	1,266	1,478	1,644	1,809	1,968	2,128	2,300	2,473
35	620	871	1,122	1,348	1,547	1,752	1,930	2,102	2,274	2,453	2,632
36	656	923	1,190	1,430	1,671	1,861	2,051	2,235	2,419	2,605	2,791
37	696	980	1,264	1,523	1,782	1,984	2,186	2,386	2,585	2,783	2,981
38	736	1,037	1,338	1,615	1,892	2,106	2,320	2,536	2,751	2,961	3,171
39	778	1,098	1,418	1,711	2,004	2,235	2,466	2,690	2,914	3,138	3,361
40	820	1,159	1,498	1,806	2,115	2,364	2,612	2,844	3,077	3,314	3,551

TABLE 54.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	36	47	58	65	72	-----	-----	-----	-----	-----	-----
11	47	62	76	87	98	-----	-----	-----	-----	-----	-----
12	58	76	95	109	123	131	139	-----	-----	-----	-----
13	71	94	118	137	156	167	178	-----	-----	-----	-----
14	84	113	142	165	188	203	218	-----	-----	-----	-----
15	100	134	169	198	226	246	266	-----	-----	-----	-----
16	115	156	196	230	264	288	313	-----	-----	-----	-----
17	132	180	228	268	308	337	366	-----	-----	-----	-----
18	150	205	260	306	351	386	420	-----	-----	-----	-----
19	170	233	296	348	400	440	481	-----	-----	-----	-----
20	189	260	331	390	450	496	542	578	615	-----	-----
21	212	292	371	438	506	559	612	656	699	-----	-----
22	234	322	411	487	563	622	681	732	783	-----	-----
23	259	358	456	541	626	691	756	816	876	-----	-----
24	284	393	502	596	690	760	831	900	969	-----	-----
25	310	430	551	655	759	840	920	996	1,072	-----	-----
26	337	468	600	714	828	918	1,008	1,092	1,175	-----	-----
27	367	510	654	779	904	1,002	1,100	1,194	1,288	-----	-----
28	397	552	708	844	981	1,086	1,192	1,297	1,402	1,494	1,587
29	428	597	766	914	1,063	1,178	1,292	1,408	1,524	1,631	1,738
30	460	642	825	985	1,145	1,268	1,392	1,519	1,646	1,768	1,890
31	493	690	886	1,060	1,235	1,372	1,508	1,641	1,774	1,910	2,046
32	526	737	948	1,136	1,325	1,474	1,623	1,762	1,902	2,052	2,201
33	562	788	1,014	1,216	1,419	1,580	1,740	1,892	2,043	2,206	2,370
34	597	838	1,079	1,296	1,513	1,684	1,856	2,020	2,184	2,361	2,538
35	636	894	1,152	1,384	1,617	1,800	1,984	2,162	2,340	2,526	2,711
36	674	949	1,224	1,472	1,721	1,917	2,113	2,304	2,495	2,690	2,884
37	715	1,008	1,300	1,567	1,834	2,042	2,251	2,458	2,666	2,871	3,076
38	756	1,066	1,376	1,661	1,946	2,168	2,389	2,612	2,836	3,052	3,269
39	798	1,128	1,458	1,759	2,060	2,298	2,537	2,768	3,000	3,232	3,463
40	841	1,190	1,539	1,856	2,174	2,430	2,685	2,925	3,165	3,411	3,657

TABLE 55.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	37	48	60	66	73	-----	-----	-----	-----	-----	-----
11	48	64	79	90	100	-----	-----	-----	-----	-----	-----
12	60	79	98	112	127	136	145	-----	-----	-----	-----
13	73	98	122	141	160	172	184	-----	-----	-----	-----
14	86	116	146	169	192	208	223	-----	-----	-----	-----
15	102	138	174	204	233	254	275	-----	-----	-----	-----
16	119	161	203	238	274	300	327	-----	-----	-----	-----
17	137	186	236	278	319	350	382	-----	-----	-----	-----
18	155	212	268	316	364	400	437	-----	-----	-----	-----
19	174	239	304	359	414	456	498	-----	-----	-----	-----
20	194	267	340	402	464	511	558	596	633	-----	-----
21	217	299	381	450	520	575	630	675	720	-----	-----
22	240	331	422	500	577	639	701	754	806	-----	-----
23	265	366	468	555	642	709	776	838	900	-----	-----
24	290	402	514	610	707	779	851	922	994	-----	-----
25	319	443	567	674	782	864	946	1,026	1,106	-----	-----
26	348	484	620	738	856	949	1,042	1,130	1,217	-----	-----
27	377	525	673	802	932	1,034	1,135	1,234	1,332	-----	-----
28	406	566	726	868	1,009	1,118	1,228	1,337	1,446	1,541	1,636
29	439	612	786	940	1,093	1,210	1,328	1,450	1,571	1,681	1,791
30	472	660	847	1,012	1,177	1,303	1,429	1,562	1,696	1,821	1,946
31	505	706	908	1,088	1,268	1,408	1,548	1,686	1,824	1,964	2,104
32	538	754	970	1,164	1,359	1,513	1,667	1,810	1,953	2,108	2,262
33	574	806	1,038	1,246	1,455	1,620	1,784	1,940	2,097	2,266	2,434
34	611	858	1,105	1,328	1,551	1,726	1,901	2,071	2,241	2,423	2,605
35	652	917	1,182	1,422	1,662	1,852	2,041	2,224	2,408	2,600	2,791
36	693	976	1,260	1,516	1,772	1,976	2,181	2,378	2,576	2,776	2,977
37	734	1,035	1,336	1,611	1,886	2,102	2,319	2,534	2,748	2,960	3,172
38	775	1,094	1,413	1,706	1,999	2,228	2,457	2,688	2,920	3,144	3,367
39	818	1,157	1,496	1,806	2,116	2,362	2,608	2,848	3,087	3,326	3,564
40	862	1,220	1,579	1,906	2,233	2,496	2,760	3,007	3,254	3,508	3,762

TABLE 56.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	38	50	62	69	76	-----	-----	-----	-----	-----	-----
11	50	66	81	92	103	-----	-----	-----	-----	-----	-----
12	61	80	100	115	130	139	148	-----	-----	-----	-----
13	76	101	126	146	166	178	190	-----	-----	-----	-----
14	90	122	153	178	202	218	233	-----	-----	-----	-----
15	106	143	180	210	241	262	284	-----	-----	-----	-----
16	121	164	207	244	280	307	334	-----	-----	-----	-----
17	140	191	242	285	328	360	393	-----	-----	-----	-----
18	159	218	276	326	375	414	452	-----	-----	-----	-----
19	179	246	312	369	426	470	514	-----	-----	-----	-----
20	199	274	349	413	477	526	575	614	654	-----	-----
21	222	306	390	462	534	590	647	694	742	-----	-----
22	245	338	432	512	591	655	719	774	829	-----	-----
23	272	376	481	571	661	730	800	866	931	-----	-----
24	299	414	530	630	731	806	882	958	1,033	-----	-----
25	326	454	581	692	802	888	973	1,056	1,138	-----	-----
26	354	493	632	753	874	969	1,064	1,154	1,243	-----	-----
27	386	538	690	824	958	1,062	1,166	1,266	1,367	-----	-----
28	418	583	748	894	1,041	1,154	1,267	1,379	1,491	1,591	1,691
29	450	629	808	966	1,123	1,246	1,368	1,492	1,617	1,732	1,846
30	482	675	868	1,036	1,205	1,338	1,470	1,606	1,743	1,872	2,002
31	516	724	931	1,116	1,300	1,445	1,590	1,732	1,875	2,020	2,164
32	550	772	994	1,194	1,394	1,552	1,709	1,858	2,007	2,166	2,325
33	590	828	1,066	1,281	1,496	1,666	1,837	1,999	2,161	2,334	2,508
34	629	884	1,139	1,369	1,599	1,782	1,965	2,140	2,315	2,502	2,690
35	668	940	1,213	1,460	1,706	1,902	2,098	2,287	2,476	2,672	2,869
36	708	998	1,287	1,550	1,813	2,022	2,232	2,434	2,636	2,842	3,048
37	752	1,060	1,369	1,652	1,934	2,157	2,380	2,601	2,822	3,040	3,258
38	795	1,123	1,451	1,753	2,055	2,292	2,529	2,768	3,007	3,237	3,467
39	839	1,187	1,535	1,854	2,173	2,428	2,682	2,929	3,176	3,422	3,667
40	883	1,251	1,619	1,955	2,291	2,562	2,834	3,090	3,345	3,606	3,867

TABLE 57.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	39	51	63	71	79	-----	-----	-----	-----	-----	-----
11	52	68	84	96	108	-----	-----	-----	-----	-----	-----
12	64	85	106	122	138	148	157	-----	-----	-----	-----
13	78	104	130	151	172	185	198	-----	-----	-----	-----
14	91	123	155	180	206	222	239	-----	-----	-----	-----
15	108	146	185	216	248	270	293	-----	-----	-----	-----
16	125	170	215	253	291	319	347	-----	-----	-----	-----
17	143	196	248	292	336	370	403	-----	-----	-----	-----
18	161	220	280	330	381	420	459	-----	-----	-----	-----
19	182	251	320	378	436	481	526	-----	-----	-----	-----
20	204	282	359	425	491	542	592	633	674	-----	-----
21	229	316	404	478	553	612	670	720	769	-----	-----
22	254	351	448	532	615	682	749	806	864	-----	-----
23	280	388	495	588	681	754	826	894	961	-----	-----
24	305	424	542	644	747	826	904	981	1,058	-----	-----
25	335	466	597	710	824	913	1,002	1,087	1,172	-----	-----
26	365	508	652	776	901	1,000	1,099	1,193	1,287	-----	-----
27	396	552	708	845	982	1,089	1,196	1,300	1,404	-----	-----
28	426	594	763	912	1,062	1,178	1,294	1,408	1,522	1,625	1,728
29	460	644	827	988	1,150	1,276	1,402	1,530	1,658	1,776	1,894
30	494	692	891	1,065	1,239	1,375	1,511	1,652	1,793	1,926	2,060
31	530	744	959	1,149	1,339	1,489	1,639	1,788	1,936	2,086	2,235
32	567	797	1,027	1,233	1,439	1,603	1,767	1,923	2,079	2,244	2,410
33	604	850	1,096	1,317	1,538	1,714	1,890	2,058	2,226	2,405	2,584
34	642	903	1,164	1,400	1,636	1,824	2,013	2,192	2,372	2,566	2,759
35	684	964	1,244	1,497	1,750	1,953	2,156	2,350	2,544	2,748	2,952
36	726	1,024	1,323	1,594	1,865	2,082	2,298	2,508	2,717	2,930	3,144
37	768	1,084	1,401	1,691	1,981	2,211	2,441	2,668	2,895	3,120	3,344
38	810	1,144	1,479	1,788	2,097	2,340	2,584	2,828	3,073	3,308	3,544
39	858	1,214	1,570	1,897	2,224	2,486	2,747	3,001	3,255	3,508	3,760
40	905	1,283	1,661	2,006	2,351	2,630	2,910	3,174	3,437	3,706	3,976

TABLE 58.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	41	54	66	74	83	-----	-----	-----	-----	-----	-----
11	54	71	88	100	112	-----	-----	-----	-----	-----	-----
12	66	88	109	126	142	152	163	-----	-----	-----	-----
13	80	108	136	157	178	192	206	-----	-----	-----	-----
14	95	128	162	188	215	232	250	-----	-----	-----	-----
15	111	150	190	223	256	279	302	-----	-----	-----	-----
16	127	172	218	257	296	325	354	-----	-----	-----	-----
17	146	200	254	300	345	380	414	-----	-----	-----	-----
18	166	228	289	342	394	434	474	-----	-----	-----	-----
19	188	258	329	390	450	496	542	-----	-----	-----	-----
20	210	290	369	437	505	558	610	652	695	-----	-----
21	235	324	414	491	568	629	690	740	791	-----	-----
22	260	360	459	545	631	700	769	828	887	-----	-----
23	287	398	509	606	702	777	852	922	992	-----	-----
24	314	436	559	666	773	854	936	1,016	1,096	-----	-----
25	343	478	612	729	846	938	1,030	1,118	1,206	-----	-----
26	372	518	665	792	920	1,022	1,123	1,220	1,316	-----	-----
27	404	564	724	865	1,006	1,117	1,228	1,335	1,442	-----	-----
28	436	610	784	938	1,091	1,212	1,332	1,450	1,569	1,674	1,778
29	471	660	848	1,015	1,182	1,312	1,443	1,574	1,706	1,828	1,949
30	506	709	912	1,092	1,272	1,413	1,554	1,699	1,844	1,982	2,120
31	542	762	982	1,178	1,373	1,528	1,682	1,835	1,988	2,141	2,294
32	579	815	1,051	1,262	1,474	1,642	1,811	1,972	2,132	2,300	2,469
33	620	872	1,124	1,352	1,580	1,762	1,943	2,118	2,292	2,471	2,660
34	660	929	1,198	1,442	1,687	1,881	2,075	2,263	2,451	2,652	2,852
35	700	988	1,275	1,536	1,796	2,004	2,212	2,413	2,614	2,824	3,035
36	741	1,046	1,352	1,628	1,905	2,127	2,349	2,564	2,778	2,998	3,218
37	786	1,110	1,435	1,732	2,029	2,266	2,502	2,736	2,970	3,202	3,434
38	830	1,174	1,518	1,836	2,153	2,404	2,656	2,908	3,161	3,405	3,649
39	878	1,244	1,610	1,946	2,282	2,552	2,821	3,083	3,345	3,606	3,866
40	926	1,314	1,701	2,056	2,410	2,698	2,986	3,258	3,529	3,806	4,083

TABLE 59.—*Gross volume of tree, Scribner log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	42	55	68	77	86	-----	-----	-----	-----	-----	-----
11	54	72	90	103	116	-----	-----	-----	-----	-----	-----
12	67	90	112	128	145	156	167	-----	-----	-----	-----
13	82	110	139	161	183	198	212	-----	-----	-----	-----
14	97	132	166	194	221	239	257	-----	-----	-----	-----
15	114	155	196	230	264	288	312	-----	-----	-----	-----
16	131	178	226	266	307	337	367	-----	-----	-----	-----
17	151	206	262	310	357	393	429	-----	-----	-----	-----
18	171	234	298	352	407	449	491	-----	-----	-----	-----
19	194	266	339	402	464	512	560	-----	-----	-----	-----
20	216	298	380	450	520	574	629	673	717	-----	-----
21	241	333	425	504	584	646	709	761	813	-----	-----
22	266	368	470	559	648	718	789	849	909	-----	-----
23	293	406	520	620	719	796	874	945	1,016	-----	-----
24	320	446	571	680	790	874	958	1,040	1,122	-----	-----
25	351	490	628	748	868	963	1,058	1,150	1,241	-----	-----
26	382	533	684	816	947	1,053	1,159	1,260	1,360	-----	-----
27	415	580	745	890	1,035	1,150	1,266	1,377	1,488	-----	-----
28	448	627	806	964	1,123	1,248	1,373	1,494	1,616	1,726	1,835
29	483	677	871	1,042	1,214	1,350	1,485	1,620	1,756	1,882	2,007
30	518	727	936	1,121	1,306	1,452	1,597	1,746	1,896	2,038	2,179
31	555	780	1,005	1,206	1,407	1,567	1,727	1,884	2,042	2,199	2,356
32	592	833	1,074	1,291	1,508	1,682	1,857	2,022	2,188	2,360	2,532
33	633	891	1,149	1,382	1,616	1,803	1,990	2,169	2,348	2,538	2,727
34	674	949	1,224	1,474	1,725	1,924	2,124	2,316	2,509	2,716	2,922
35	718	1,012	1,307	1,574	1,842	2,057	2,272	2,480	2,687	2,904	3,120
36	761	1,076	1,390	1,674	1,959	2,190	2,420	2,642	2,865	3,091	3,317
37	806	1,141	1,474	1,780	2,086	2,330	2,575	2,816	3,058	3,297	3,536
38	851	1,205	1,559	1,886	2,212	2,471	2,730	2,990	3,250	3,502	3,754
39	900	1,276	1,651	1,996	2,342	2,620	2,893	3,168	3,438	3,706	3,974
40	948	1,346	1,743	2,107	2,471	2,768	3,065	3,346	3,626	3,910	4,195

Doyle Log Rule

(Form Class 65-90)

TABLE 60.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	6	6	7	-----	-----	-----	-----	-----	-----	-----	-----
11	10	12	13	-----	-----	-----	-----	-----	-----	-----	-----
12	14	16	19	20	21	-----	-----	-----	-----	-----	-----
13	20	24	28	30	32	-----	-----	-----	-----	-----	-----
14	26	32	38	41	44	-----	-----	-----	-----	-----	-----
15	34	42	50	55	60	-----	-----	-----	-----	-----	-----
16	41	51	61	68	75	79	83	-----	-----	-----	-----
17	50	63	76	85	94	100	106	-----	-----	-----	-----
18	59	75	91	102	114	121	128	-----	-----	-----	-----
19	70	90	110	124	138	147	156	-----	-----	-----	-----
20	81	105	129	146	163	174	185	193	201	-----	-----
21	94	122	150	171	192	205	218	229	240	-----	-----
22	106	139	172	196	220	236	252	266	279	-----	-----
23	120	158	196	225	254	272	290	308	325	-----	-----
24	135	178	221	255	289	308	327	349	371	-----	-----
25	150	199	248	287	326	350	374	399	424	-----	-----
26	166	221	276	320	363	392	420	448	476	-----	-----
27	184	246	308	357	406	438	470	502	534	-----	-----
28	202	270	339	394	449	484	520	556	593	630	666
29	221	296	372	434	495	534	574	616	658	702	745
30	240	323	406	474	541	584	627	676	724	774	824
31	261	352	444	519	594	644	693	744	796	852	908
32	282	382	481	564	647	703	759	813	867	930	993
33	305	414	522	613	704	765	826	886	946	1,017	1,088
34	328	445	562	662	761	828	894	960	1,025	1,104	1,182
35	352	480	607	715	823	896	970	1,042	1,114	1,196	1,278
36	376	514	652	768	885	966	1,046	1,125	1,204	1,290	1,375
37	402	550	698	826	954	1,040	1,126	1,215	1,304	1,395	1,486
38	428	586	745	884	1,024	1,116	1,207	1,305	1,403	1,500	1,597
39	456	626	797	946	1,094	1,196	1,297	1,398	1,498	1,604	1,709
40	484	666	849	1,007	1,165	1,276	1,387	1,490	1,594	1,708	1,821

TABLE 61.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	7	8	8	-----	-----	-----	-----	-----	-----	-----	-----
11	11	12	14	-----	-----	-----	-----	-----	-----	-----	-----
12	15	18	20	22	23	-----	-----	-----	-----	-----	-----
13	21	26	30	32	34	-----	-----	-----	-----	-----	-----
14	27	33	39	42	46	-----	-----	-----	-----	-----	-----
15	36	44	52	58	64	-----	-----	-----	-----	-----	-----
16	44	55	66	74	82	86	90	-----	-----	-----	-----
17	53	68	82	92	102	108	114	-----	-----	-----	-----
18	62	80	97	110	122	130	137	-----	-----	-----	-----
19	74	95	116	132	147	156	166	-----	-----	-----	-----
20	85	110	135	154	172	184	195	204	213	-----	-----
21	98	128	157	180	202	216	230	242	252	-----	-----
22	110	144	179	205	231	248	264	278	292	-----	-----
23	124	164	204	235	266	284	302	320	339	-----	-----
24	139	184	229	264	300	320	341	364	386	-----	-----
25	156	208	260	301	342	367	392	418	444	-----	-----
26	174	232	291	337	383	414	444	474	503	-----	-----
27	192	257	322	374	427	460	494	529	564	-----	-----
28	210	282	354	412	471	508	545	584	624	662	700
29	230	310	389	454	518	560	602	647	692	737	782
30	250	337	424	494	565	612	658	710	761	813	865
31	271	366	462	541	620	672	724	779	834	892	951
32	292	396	499	586	674	732	791	848	906	972	1,037
33	316	428	540	636	732	796	861	924	986	1,060	1,134
34	339	460	582	686	790	860	931	999	1,067	1,150	1,232
35	366	499	632	745	858	936	1,014	1,090	1,166	1,252	1,339
36	392	536	681	804	927	1,012	1,097	1,181	1,265	1,356	1,446
37	418	573	728	863	998	1,089	1,180	1,274	1,367	1,463	1,559
38	445	610	776	922	1,068	1,166	1,264	1,366	1,469	1,570	1,672
39	474	652	829	984	1,140	1,248	1,355	1,461	1,567	1,676	1,786
40	502	692	882	1,048	1,213	1,330	1,446	1,556	1,665	1,782	1,900

TABLE 62.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	7	8	9	-----	-----	-----	-----	-----	-----	-----	-----
11	12	14	16	-----	-----	-----	-----	-----	-----	-----	-----
12	16	19	22	23	24	-----	-----	-----	-----	-----	-----
13	22	27	32	35	38	-----	-----	-----	-----	-----	-----
14	29	36	43	47	51	-----	-----	-----	-----	-----	-----
15	37	46	56	62	68	-----	-----	-----	-----	-----	-----
16	45	56	68	76	84	88	93	-----	-----	-----	-----
17	56	71	86	96	107	114	120	-----	-----	-----	-----
18	66	84	103	116	130	138	146	-----	-----	-----	-----
19	77	100	122	139	156	166	175	-----	-----	-----	-----
20	88	114	141	161	181	192	204	214	225	-----	-----
21	101	132	164	188	211	226	240	253	266	-----	-----
22	114	150	186	214	241	258	276	291	306	-----	-----
23	130	172	214	247	280	300	320	340	359	-----	-----
24	146	194	242	280	318	340	363	388	412	-----	-----
25	163	218	272	315	358	385	412	440	468	-----	-----
26	180	240	301	349	397	430	462	492	523	-----	-----
27	200	268	336	390	445	482	518	554	590	-----	-----
28	219	294	370	432	493	534	574	616	658	697	736
29	239	322	406	474	542	586	630	678	727	774	820
30	259	350	441	516	590	638	687	742	796	850	905
31	281	380	480	563	646	701	756	813	870	932	994
32	303	411	519	610	701	763	825	884	945	1, 014	1, 083
33	328	446	564	665	764	833	901	968	1, 034	1, 112	1, 190
34	353	481	609	719	828	903	977	1, 050	1, 124	1, 211	1, 298
35	378	517	656	775	894	975	1, 056	1, 137	1, 218	1, 308	1, 398
36	404	554	703	831	959	1, 048	1, 136	1, 224	1, 312	1, 406	1, 499
37	433	594	756	896	1, 036	1, 132	1, 228	1, 326	1, 424	1, 524	1, 625
38	462	635	808	961	1, 114	1, 217	1, 320	1, 431	1, 537	1, 644	1, 751
39	491	676	862	1, 025	1, 188	1, 301	1, 414	1, 528	1, 638	1, 753	1, 868
40	520	718	916	1, 089	1, 261	1, 384	1, 507	1, 624	1, 738	1, 862	1, 985

TABLE 63.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	8	9	10	-----	-----	-----	-----	-----	-----	-----	-----
11	13	16	18	-----	-----	-----	-----	-----	-----	-----	-----
12	18	22	25	26	28	-----	-----	-----	-----	-----	-----
13	24	29	34	37	40	-----	-----	-----	-----	-----	-----
14	30	37	44	48	53	-----	-----	-----	-----	-----	-----
15	39	48	58	65	72	-----	-----	-----	-----	-----	-----
16	48	60	73	82	91	96	101	-----	-----	-----	-----
17	58	74	89	100	112	119	126	-----	-----	-----	-----
18	67	86	105	120	134	142	151	-----	-----	-----	-----
19	80	103	126	144	162	173	184	-----	-----	-----	-----
20	92	120	148	169	190	203	216	226	237	-----	-----
21	106	140	173	198	224	240	256	270	284	-----	-----
22	121	160	198	228	258	278	297	314	330	-----	-----
23	136	180	224	259	294	316	338	358	379	-----	-----
24	151	201	251	290	330	354	378	403	428	-----	-----
25	170	227	284	329	374	403	432	461	490	-----	-----
26	188	252	316	366	417	452	487	520	553	-----	-----
27	206	277	348	406	463	502	540	578	616	-----	-----
28	225	303	381	445	509	551	593	636	679	720	761
29	247	334	420	491	562	609	656	706	756	805	854
30	269	364	459	537	615	667	719	776	833	890	947
31	293	398	502	590	677	736	795	856	916	981	1,046
32	317	431	545	642	739	805	871	936	1,000	1,072	1,145
33	341	464	588	693	798	870	943	1,014	1,084	1,166	1,247
34	365	498	631	744	858	936	1,015	1,092	1,168	1,258	1,349
35	392	537	682	806	930	1,016	1,102	1,187	1,272	1,366	1,460
36	420	576	733	868	1,002	1,096	1,190	1,283	1,376	1,474	1,572
37	448	615	782	929	1,076	1,176	1,276	1,379	1,482	1,587	1,692
38	475	654	832	990	1,149	1,256	1,363	1,476	1,589	1,700	1,811
39	506	698	891	1,060	1,230	1,348	1,466	1,583	1,700	1,820	1,940
40	538	744	950	1,130	1,310	1,440	1,569	1,690	1,810	1,940	2,069

TABLE 64.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	8	9	10	-----	-----	-----	-----	-----	-----	-----	-----
11	13	16	18	-----	-----	-----	-----	-----	-----	-----	-----
12	18	22	25	27	29	-----	-----	-----	-----	-----	-----
13	25	30	36	40	43	-----	-----	-----	-----	-----	-----
14	32	40	48	52	57	60	62	-----	-----	-----	-----
15	40	51	62	68	75	80	84	-----	-----	-----	-----
16	49	62	75	84	93	99	105	-----	-----	-----	-----
17	60	77	94	106	118	125	132	-----	-----	-----	-----
18	71	92	112	127	142	151	160	-----	-----	-----	-----
19	84	109	134	152	171	182	194	-----	-----	-----	-----
20	96	126	155	178	200	214	229	240	250	-----	-----
21	110	145	180	207	234	252	270	284	298	-----	-----
22	125	166	206	237	268	289	310	328	345	-----	-----
23	142	189	236	272	309	332	356	378	400	-----	-----
24	159	212	265	308	350	376	401	428	456	-----	-----
25	176	236	295	342	390	421	452	484	515	-----	-----
26	193	259	325	378	431	468	504	539	574	-----	-----
27	214	288	362	422	482	522	563	604	644	-----	-----
28	234	316	398	466	533	578	622	668	714	756	799
29	256	347	438	512	587	636	686	739	792	844	895
30	279	378	478	560	641	696	750	810	871	931	991
31	304	413	522	613	704	766	828	892	956	1,024	1,092
32	328	446	565	666	767	837	907	974	1,042	1,118	1,193
33	354	483	612	722	833	910	986	1,060	1,135	1,220	1,306
34	380	520	659	779	899	982	1,066	1,147	1,228	1,324	1,419
35	406	557	708	838	968	1,058	1,149	1,238	1,326	1,425	1,524
36	433	595	757	896	1,036	1,134	1,232	1,328	1,424	1,527	1,630
37	463	637	811	964	1,116	1,222	1,327	1,434	1,542	1,651	1,760
38	493	679	865	1,030	1,196	1,309	1,422	1,541	1,660	1,776	1,891
39	525	725	925	1,102	1,278	1,402	1,527	1,650	1,773	1,898	2,024
40	557	771	985	1,173	1,361	1,496	1,632	1,759	1,886	2,022	2,157

TABLE 65.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	9	10	12	-----	-----	-----	-----	-----	-----	-----	-----
11	14	17	20	-----	-----	-----	-----	-----	-----	-----	-----
12	19	23	27	30	32	-----	-----	-----	-----	-----	-----
13	26	32	39	42	46	-----	-----	-----	-----	-----	-----
14	34	42	51	56	61	64	66	-----	-----	-----	-----
15	43	54	66	73	80	84	89	-----	-----	-----	-----
16	52	66	80	90	100	106	112	-----	-----	-----	-----
17	63	81	99	112	125	133	141	-----	-----	-----	-----
18	74	96	118	134	150	160	170	-----	-----	-----	-----
19	87	114	140	160	180	192	204	-----	-----	-----	-----
20	100	131	162	186	210	224	239	251	263	-----	-----
21	115	152	188	216	245	264	282	297	312	-----	-----
22	130	172	215	248	280	302	324	343	362	-----	-----
23	147	196	244	282	321	346	370	394	418	-----	-----
24	164	219	274	318	362	390	417	446	474	-----	-----
25	183	246	308	358	408	441	474	507	540	-----	-----
26	202	272	341	397	453	492	530	568	605	-----	-----
27	222	300	378	441	504	547	590	633	676	-----	-----
28	243	329	415	486	556	604	651	700	748	793	838
29	266	361	456	534	612	664	717	773	829	882	936
30	289	392	496	582	668	726	783	846	910	972	1, 035
31	314	427	540	636	732	798	863	930	997	1, 068	1, 138
32	339	462	585	696	796	870	943	1, 014	1, 084	1, 163	1, 242
33	366	500	633	748	863	944	1, 024	1, 102	1, 180	1, 269	1, 358
34	392	536	681	806	930	1, 018	1, 105	1, 190	1, 275	1, 374	1, 473
35	420	577	734	870	1, 005	1, 100	1, 196	1, 290	1, 383	1, 486	1, 590
36	449	618	788	934	1, 080	1, 184	1, 287	1, 389	1, 491	1, 599	1, 707
37	480	662	844	1, 003	1, 162	1, 274	1, 385	1, 498	1, 612	1, 726	1, 841
38	511	705	899	1, 072	1, 244	1, 364	1, 483	1, 608	1, 732	1, 854	1, 975
39	544	752	960	1, 144	1, 328	1, 459	1, 590	1, 719	1, 848	1, 979	2, 110
40	576	798	1, 021	1, 216	1, 412	1, 554	1, 696	1, 830	1, 963	2, 104	2, 246

TABLE 66.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	10	12	13	-----	-----	-----	-----	-----	-----	-----	-----
11	15	18	20	-----	-----	-----	-----	-----	-----	-----	-----
12	20	24	28	30	33	-----	-----	-----	-----	-----	-----
13	28	34	40	44	48	-----	-----	-----	-----	-----	-----
14	35	44	53	58	63	66	68	-----	-----	-----	-----
15	45	57	69	78	86	90	94	-----	-----	-----	-----
16	55	70	85	96	108	114	120	-----	-----	-----	-----
17	66	85	104	118	133	142	150	-----	-----	-----	-----
18	77	100	123	140	158	169	180	-----	-----	-----	-----
19	90	118	146	168	189	202	216	-----	-----	-----	-----
20	104	137	170	195	220	236	251	264	277	-----	-----
21	120	158	196	226	256	275	294	310	327	-----	-----
22	135	179	223	258	292	315	338	358	377	-----	-----
23	152	202	253	294	334	360	385	410	435	-----	-----
24	169	226	283	329	375	404	432	462	493	-----	-----
25	190	255	320	372	425	460	494	530	565	-----	-----
26	210	283	356	416	475	516	557	597	637	-----	-----
27	232	313	394	461	528	574	620	666	711	-----	-----
28	253	343	433	507	581	632	682	734	785	832	879
29	276	375	474	556	638	694	749	808	867	924	980
30	299	407	515	604	694	755	816	882	949	1,014	1,080
31	324	442	560	660	760	829	898	968	1,038	1,112	1,186
32	350	478	606	716	825	902	979	1,052	1,126	1,210	1,293
33	377	516	654	774	894	978	1,062	1,143	1,224	1,317	1,410
34	404	554	703	832	962	1,054	1,145	1,234	1,322	1,424	1,527
35	436	599	762	903	1,044	1,144	1,245	1,343	1,441	1,548	1,656
36	467	644	820	973	1,126	1,236	1,345	1,452	1,560	1,673	1,786
37	498	687	876	1,043	1,210	1,327	1,444	1,563	1,682	1,803	1,924
38	529	731	933	1,114	1,294	1,419	1,544	1,674	1,805	1,933	2,061
39	562	778	995	1,187	1,379	1,516	1,653	1,788	1,922	2,060	2,198
40	595	826	1,057	1,260	1,464	1,613	1,762	1,901	2,040	2,188	2,336

TABLE 67.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	10	12	13								
11	16	19	22								
12	21	26	30	32	35						
13	29	36	43	48	52						
14	37	46	56	62	69	72	75				
15	46	59	72	81	90	95	100				
16	56	72	87	98	110	118	125				
17	68	88	108	123	138	148	158				
18	81	106	130	148	167	178	190				
19	94	124	154	176	198	212	227				
20	108	142	177	204	230	247	264	277	290		
21	124	164	204	235	266	287	308	325	342		
22	139	185	231	267	303	328	353	373	393		
23	158	211	264	306	349	377	405	432	458		
24	177	238	298	346	395	426	457	490	522		
25	196	264	332	387	442	479	516	553	590		
26	216	292	367	428	490	533	576	618	659		
27	239	324	408	478	548	596	644	692	740		
28	262	356	450	528	605	658	712	766	821	870	920
29	286	389	492	578	664	723	782	844	906	965	1,024
30	310	422	535	628	722	786	851	920	990	1,058	1,127
31	336	458	581	684	788	861	934	1,007	1,080	1,158	1,236
32	361	494	627	740	854	935	1,016	1,094	1,171	1,258	1,344
33	396	538	680	805	930	1,018	1,107	1,192	1,278	1,376	1,473
34	420	576	733	869	1,005	1,102	1,198	1,292	1,386	1,494	1,602
35	450	620	789	936	1,083	1,188	1,294	1,396	1,499	1,612	1,724
36	480	662	845	1,003	1,161	1,275	1,389	1,500	1,612	1,729	1,846
37	514	710	906	1,079	1,252	1,375	1,498	1,622	1,746	1,872	1,997
38	548	758	968	1,156	1,344	1,476	1,607	1,744	1,880	2,014	2,148
39	582	807	1,032	1,232	1,431	1,574	1,718	1,859	2,000	2,144	2,288
40	615	855	1,095	1,306	1,518	1,674	1,829	1,975	2,121	2,275	2,429

TABLE 68.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	11	13	15	-----	-----	-----	-----	-----	-----	-----	-----
11	17	20	24	-----	-----	-----	-----	-----	-----	-----	-----
12	23	28	33	36	39	-----	-----	-----	-----	-----	-----
13	30	38	46	56	55	-----	-----	-----	-----	-----	-----
14	38	48	58	64	71	74	77	-----	-----	-----	-----
15	48	62	76	85	94	100	105	-----	-----	-----	-----
16	59	76	93	105	117	125	133	-----	-----	-----	-----
17	71	92	113	128	144	154	164	-----	-----	-----	-----
18	83	108	133	152	171	184	196	-----	-----	-----	-----
19	98	128	158	182	206	221	236	-----	-----	-----	-----
20	112	148	184	212	240	258	277	290	304	-----	-----
21	129	172	214	247	280	303	326	344	362	-----	-----
22	146	195	244	282	321	348	374	396	419	-----	-----
23	164	220	276	320	365	394	424	452	480	-----	-----
24	182	244	307	358	409	442	474	508	541	-----	-----
25	204	275	346	404	462	500	539	578	616	-----	-----
26	225	304	384	449	514	559	604	648	692	-----	-----
27	247	335	423	496	568	618	669	719	769	-----	-----
28	269	366	462	542	623	678	734	790	846	897	948
29	294	401	508	597	686	748	809	874	938	1,000	1,061
30	320	437	554	652	750	817	884	958	1,031	1,102	1,174
31	348	477	604	713	822	898	975	1,052	1,130	1,212	1,294
32	376	516	655	775	895	980	1,066	1,148	1,230	1,322	1,413
33	404	556	706	836	967	1,060	1,153	1,242	1,332	1,434	1,536
34	433	595	757	898	1,039	1,140	1,240	1,338	1,435	1,547	1,659
35	465	641	817	970	1,124	1,234	1,344	1,452	1,559	1,676	1,794
36	497	687	877	1,042	1,208	1,328	1,447	1,565	1,683	1,806	1,928
37	530	733	936	1,116	1,295	1,424	1,552	1,681	1,810	1,940	2,071
38	562	778	995	1,188	1,382	1,519	1,656	1,797	1,938	2,076	2,214
39	598	831	1,064	1,270	1,477	1,627	1,777	1,924	2,070	2,220	2,370
40	635	884	1,132	1,352	1,572	1,735	1,898	2,050	2,202	2,364	2,525

TABLE 69.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	12	14	16	-----	-----	-----	-----	-----	-----	-----	-----
11	18	22	26	-----	-----	-----	-----	-----	-----	-----	-----
12	24	30	35	38	41	-----	-----	-----	-----	-----	-----
13	32	40	49	54	60	-----	-----	-----	-----	-----	-----
14	41	52	63	70	78	82	85	-----	-----	-----	-----
15	51	66	80	90	100	106	112	-----	-----	-----	-----
16	61	78	96	109	122	130	138	-----	-----	-----	-----
17	74	96	118	134	151	162	172	-----	-----	-----	-----
18	86	112	139	160	180	194	207	-----	-----	-----	-----
19	102	134	166	191	216	232	248	-----	-----	-----	-----
20	117	155	193	222	252	271	290	306	321	-----	-----
21	134	178	223	258	292	316	340	359	378	-----	-----
22	151	202	253	293	333	362	390	413	436	-----	-----
23	170	229	288	335	382	413	444	474	504	-----	-----
24	190	256	322	376	430	464	499	535	571	-----	-----
25	210	284	358	419	480	521	562	602	643	-----	-----
26	231	313	395	462	529	577	625	670	715	-----	-----
27	255	346	438	514	589	642	696	748	800	-----	-----
28	279	380	481	565	649	708	766	825	884	938	992
29	305	416	528	621	714	778	843	910	978	1,042	1,107
30	331	452	574	676	778	849	920	996	1,073	1,148	1,222
31	360	493	626	739	852	932	1,013	1,094	1,175	1,260	1,344
32	388	532	677	802	926	1,016	1,106	1,192	1,277	1,372	1,467
33	418	575	732	868	1,004	1,102	1,201	1,296	1,390	1,496	1,602
34	449	618	788	936	1,083	1,190	1,296	1,399	1,502	1,620	1,737
35	480	663	846	1,005	1,164	1,280	1,395	1,508	1,620	1,742	1,864
36	511	707	903	1,074	1,244	1,369	1,494	1,616	1,738	1,865	1,992
37	546	756	966	1,152	1,339	1,473	1,607	1,742	1,877	2,012	2,148
38	581	806	1,030	1,232	1,434	1,577	1,720	1,868	2,016	2,160	2,305
39	618	859	1,100	1,315	1,530	1,687	1,844	1,998	2,152	2,307	2,462
40	655	912	1,170	1,398	1,627	1,798	1,968	2,128	2,287	2,454	2,620

TABLE 70.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	12	14	16	-----	-----	-----	-----	-----	-----	-----	-----
11	18	22	26	-----	-----	-----	-----	-----	-----	-----	-----
12	25	31	37	40	44	-----	-----	-----	-----	-----	-----
13	34	42	51	56	62	-----	-----	-----	-----	-----	-----
14	42	54	65	72	80	84	87	-----	-----	-----	-----
15	53	68	83	94	104	110	117	-----	-----	-----	-----
16	64	82	101	115	129	138	147	-----	-----	-----	-----
17	77	100	124	142	159	170	182	-----	-----	-----	-----
18	90	118	146	168	189	203	217	-----	-----	-----	-----
19	106	140	173	200	226	243	260	-----	-----	-----	-----
20	121	160	200	231	262	282	303	319	335	-----	-----
21	138	184	231	268	304	329	354	374	395	-----	-----
22	156	209	262	304	346	376	406	430	455	-----	-----
23	176	237	298	347	396	429	462	493	524	-----	-----
24	196	264	333	389	445	481	517	554	592	-----	-----
25	218	295	372	436	499	542	586	628	670	-----	-----
26	240	326	412	482	553	604	654	702	749	-----	-----
27	264	360	456	535	614	670	726	781	836	-----	-----
28	289	394	499	588	676	738	799	862	924	980	1,036
29	316	432	547	644	742	810	878	949	1,020	1,087	1,154
30	342	468	595	701	807	882	956	1,036	1,117	1,195	1,273
31	371	509	647	764	882	966	1,051	1,136	1,220	1,308	1,397
32	400	550	699	828	958	1,052	1,146	1,235	1,324	1,422	1,521
33	431	594	756	897	1,038	1,140	1,242	1,340	1,439	1,549	1,659
34	462	637	812	964	1,117	1,228	1,339	1,446	1,554	1,676	1,797
35	496	685	874	1,040	1,206	1,326	1,447	1,564	1,682	1,810	1,938
36	529	733	937	1,116	1,294	1,424	1,555	1,683	1,811	1,944	2,078
37	564	783	1,002	1,196	1,390	1,530	1,671	1,812	1,953	2,096	2,238
38	600	834	1,067	1,276	1,486	1,636	1,787	1,941	2,095	2,246	2,397
39	638	888	1,138	1,361	1,584	1,748	1,913	2,073	2,233	2,396	2,558
40	676	943	1,210	1,446	1,683	1,861	2,039	2,205	2,371	2,546	2,720

TABLE 71.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	13	16	18	19	20	-----	-----	-----	-----	-----	-----
11	20	24	28	30	32	-----	-----	-----	-----	-----	-----
12	26	32	38	42	45	-----	-----	-----	-----	-----	-----
13	35	44	53	58	64	-----	-----	-----	-----	-----	-----
14	44	56	68	76	84	88	92	-----	-----	-----	-----
15	56	72	88	99	110	117	124	-----	-----	-----	-----
16	67	87	107	122	137	146	156	-----	-----	-----	-----
17	80	105	130	149	168	180	193	-----	-----	-----	-----
18	94	124	153	176	200	215	230	-----	-----	-----	-----
19	110	145	180	208	236	254	273	-----	-----	-----	-----
20	125	166	208	240	273	294	316	334	351	-----	-----
21	143	192	240	278	316	342	368	390	412	-----	-----
22	161	216	271	315	359	390	421	448	474	-----	-----
23	182	245	308	359	410	444	478	511	544	-----	-----
24	202	273	344	402	460	498	535	575	615	-----	-----
25	226	306	387	453	519	564	610	655	700	-----	-----
26	250	340	430	504	578	631	684	735	786	-----	-----
27	274	374	474	557	640	699	758	816	875	-----	-----
28	299	408	518	610	702	767	832	898	964	1, 022	1, 081
29	326	446	566	668	770	841	912	987	1, 062	1, 132	1, 202
30	353	484	615	726	837	915	993	1, 076	1, 160	1, 241	1, 322
31	382	525	668	791	914	1, 002	1, 090	1, 178	1, 266	1, 358	1, 450
32	412	567	722	856	990	1, 088	1, 186	1, 280	1, 373	1, 475	1, 577
33	444	612	779	925	1, 071	1, 178	1, 284	1, 387	1, 490	1, 604	1, 718
34	475	656	836	994	1, 152	1, 268	1, 383	1, 494	1, 606	1, 732	1, 858
35	512	708	904	1, 076	1, 248	1, 374	1, 501	1, 624	1, 746	1, 879	2, 012
36	548	760	972	1, 158	1, 344	1, 482	1, 619	1, 753	1, 887	2, 026	2, 166
37	584	811	1, 038	1, 240	1, 442	1, 589	1, 736	1, 884	2, 032	2, 180	2, 328
38	620	862	1, 104	1, 322	1, 540	1, 697	1, 854	2, 016	2, 177	2, 334	2, 491
39	658	917	1, 176	1, 408	1, 640	1, 811	1, 982	2, 150	2, 317	2, 486	2, 656
40	697	973	1, 249	1, 495	1, 741	1, 926	2, 111	2, 284	2, 457	2, 639	2, 821

TABLE 72.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	14	16	19	20	21	-----	-----	-----	-----	-----	-----
11	20	25	30	32	34	-----	-----	-----	-----	-----	-----
12	27	34	40	44	48	-----	-----	-----	-----	-----	-----
13	36	46	56	62	68	-----	-----	-----	-----	-----	-----
14	46	59	72	80	89	94	98	-----	-----	-----	-----
15	58	74	91	103	115	122	130	-----	-----	-----	-----
16	69	90	110	126	141	151	161	-----	-----	-----	-----
17	84	110	135	155	175	188	202	-----	-----	-----	-----
18	98	129	160	184	209	226	242	-----	-----	-----	-----
19	114	151	188	218	247	266	286	-----	-----	-----	-----
20	130	173	216	250	285	308	331	349	367	-----	-----
21	148	198	248	288	329	356	384	407	430	-----	-----
22	166	223	280	326	372	404	437	464	492	-----	-----
23	188	254	320	373	426	463	500	535	570	-----	-----
24	210	284	359	420	481	522	563	605	647	-----	-----
25	233	316	400	469	538	586	634	681	728	-----	-----
26	256	348	441	518	594	650	705	758	810	-----	-----
27	283	386	490	576	662	724	786	847	908	-----	-----
28	310	424	538	634	730	799	868	936	1,005	1,066	1,128
29	338	463	588	693	798	874	950	1,028	1,106	1,179	1,252
30	365	501	637	752	867	950	1,032	1,119	1,206	1,290	1,375
31	394	542	690	818	945	1,038	1,130	1,222	1,313	1,408	1,504
32	424	584	744	884	1,023	1,125	1,227	1,324	1,420	1,526	1,633
33	458	632	806	959	1,112	1,223	1,334	1,441	1,548	1,667	1,786
34	493	681	869	1,034	1,200	1,321	1,442	1,560	1,677	1,808	1,940
35	528	731	934	1,112	1,291	1,422	1,554	1,682	1,811	1,948	2,086
36	562	780	999	1,190	1,382	1,524	1,667	1,806	1,945	2,088	2,232
37	601	836	1,070	1,279	1,488	1,642	1,796	1,949	2,102	2,256	2,410
38	640	891	1,142	1,368	1,594	1,759	1,924	2,092	2,260	2,424	2,588
39	679	948	1,216	1,456	1,696	1,875	2,054	2,228	2,403	2,579	2,755
40	718	1,004	1,289	1,544	1,798	1,991	2,184	2,365	2,546	2,734	2,922

TABLE 73.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	14	17	20	21	22	-----	-----	-----	-----	-----	-----
11	22	27	32	35	38	-----	-----	-----	-----	-----	-----
12	29	36	43	48	53	54	56	-----	-----	-----	-----
13	38	48	59	66	73	76	80	-----	-----	-----	-----
14	48	62	75	84	93	98	103	-----	-----	-----	-----
15	60	78	96	108	121	128	136	-----	-----	-----	-----
16	72	94	116	132	149	160	170	-----	-----	-----	-----
17	86	113	140	161	182	196	209	-----	-----	-----	-----
18	100	132	164	190	215	232	248	-----	-----	-----	-----
19	118	156	194	225	256	276	297	-----	-----	-----	-----
20	135	180	225	261	297	322	346	364	383	-----	-----
21	154	207	260	302	344	374	404	428	452	-----	-----
22	174	234	295	344	392	427	462	492	521	-----	-----
23	195	264	332	388	444	483	522	558	594	-----	-----
24	216	293	370	433	496	539	582	625	668	-----	-----
25	241	328	414	486	558	609	660	709	758	-----	-----
26	266	362	459	539	619	678	737	793	849	-----	-----
27	292	398	505	594	684	749	814	877	940	-----	-----
28	317	434	551	650	750	820	890	961	1, 032	1, 096	1, 161
29	346	475	604	714	824	902	980	1, 061	1, 142	1, 218	1, 294
30	376	517	658	778	898	984	1, 069	1, 160	1, 251	1, 339	1, 427
31	408	562	717	850	983	1, 080	1, 176	1, 273	1, 370	1, 470	1, 570
32	441	608	776	922	1, 068	1, 176	1, 283	1, 386	1, 488	1, 600	1, 712
33	474	654	835	994	1, 152	1, 268	1, 385	1, 497	1, 609	1, 734	1, 858
34	506	700	894	1, 064	1, 235	1, 361	1, 487	1, 608	1, 730	1, 866	2, 003
35	544	754	964	1, 149	1, 334	1, 472	1, 610	1, 743	1, 876	2, 020	2, 163
36	581	308	1, 035	1, 234	1, 434	1, 583	1, 732	1, 878	2, 023	2, 173	2, 323
37	618	860	1, 102	1, 318	1, 534	1, 694	1, 854	2, 013	2, 172	2, 332	2, 492
38	655	912	1, 170	1, 402	1, 635	1, 805	1, 975	2, 148	2, 322	2, 491	2, 660
39	698	974	1, 250	1, 498	1, 746	1, 932	2, 118	2, 298	2, 479	2, 662	2, 844
40	740	1, 035	1, 330	1, 594	1, 858	2, 059	2, 260	2, 448	2, 636	2, 832	3, 027

TABLE 74.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	15	18	21	22	24	-----	-----	-----	-----	-----	-----
11	22	28	33	36	40	-----	-----	-----	-----	-----	-----
12	30	38	45	50	55	57	59	-----	-----	-----	-----
13	40	51	62	70	77	80	84	-----	-----	-----	-----
14	50	64	79	89	99	104	110	-----	-----	-----	-----
15	62	80	99	112	126	135	144	-----	-----	-----	-----
16	74	96	119	136	153	165	177	-----	-----	-----	-----
17	89	117	145	166	188	203	218	-----	-----	-----	-----
18	104	138	171	198	224	242	260	-----	-----	-----	-----
19	122	162	202	234	266	288	310	-----	-----	-----	-----
20	139	186	233	270	308	334	359	380	400	-----	-----
21	160	214	269	314	358	389	420	445	470	-----	-----
22	180	242	305	356	407	444	480	510	541	-----	-----
23	202	274	346	405	464	505	546	584	622	-----	-----
24	225	306	386	453	520	566	611	656	702	-----	-----
25	248	338	428	503	578	631	684	736	788	-----	-----
26	272	372	471	554	636	697	758	816	873	-----	-----
27	300	410	521	614	707	774	842	908	974	-----	-----
28	328	450	571	674	778	852	927	1,002	1,076	1,142	1,209
29	358	492	626	740	854	936	1,018	1,102	1,187	1,266	1,346
30	388	534	680	804	929	1,018	1,108	1,203	1,298	1,390	1,482
31	421	580	740	878	1,016	1,116	1,217	1,318	1,419	1,522	1,626
32	454	627	800	951	1,102	1,214	1,326	1,433	1,540	1,656	1,771
33	489	676	864	1,029	1,194	1,316	1,438	1,555	1,672	1,801	1,930
34	524	726	928	1,106	1,285	1,417	1,549	1,676	1,804	1,947	2,090
35	560	778	995	1,186	1,378	1,522	1,666	1,804	1,943	2,092	2,242
36	595	828	1,062	1,267	1,472	1,627	1,782	1,932	2,082	2,238	2,393
37	636	886	1,136	1,359	1,582	1,748	1,914	2,080	2,245	2,411	2,577
38	676	943	1,210	1,451	1,692	1,870	2,047	2,228	2,408	2,584	2,761
39	719	1,005	1,291	1,548	1,805	1,998	2,191	2,379	2,567	2,758	2,948
40	762	1,067	1,372	1,645	1,918	2,126	2,335	2,530	2,726	2,930	3,134

TABLE 75.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	16	20	23	24	26	-----	-----	-----	-----	-----	-----
11	24	30	35	38	42	-----	-----	-----	-----	-----	-----
12	31	39	47	52	57	60	62	-----	-----	-----	-----
13	42	53	64	72	80	84	88	-----	-----	-----	-----
14	52	67	82	93	104	109	114	-----	-----	-----	-----
15	64	84	104	118	132	141	150	-----	-----	-----	-----
16	77	101	125	143	161	174	186	-----	-----	-----	-----
17	92	122	152	175	198	214	230	-----	-----	-----	-----
18	108	144	179	206	234	254	273	-----	-----	-----	-----
19	126	168	210	244	278	301	324	-----	-----	-----	-----
20	144	193	242	282	321	348	374	396	417	-----	-----
21	164	221	278	324	370	403	436	462	489	-----	-----
22	185	250	315	368	420	458	497	529	561	-----	-----
23	208	282	356	417	478	521	564	604	643	-----	-----
24	231	314	397	466	536	583	630	678	725	-----	-----
25	256	350	443	522	600	655	710	764	818	-----	-----
26	282	386	489	576	663	727	791	852	912	-----	-----
27	310	425	540	638	735	806	877	946	1,015	-----	-----
28	339	466	592	700	807	885	963	1,040	1,118	1,188	1,258
29	370	509	648	766	884	970	1,056	1,144	1,232	1,315	1,398
30	400	552	703	832	961	1,055	1,149	1,248	1,346	1,442	1,537
31	434	599	764	906	1,049	1,154	1,260	1,364	1,469	1,576	1,684
32	467	646	824	980	1,137	1,254	1,370	1,481	1,592	1,712	1,831
33	502	696	889	1,060	1,230	1,356	1,483	1,604	1,726	1,860	1,994
34	538	746	954	1,138	1,322	1,459	1,596	1,728	1,861	2,008	2,156
35	576	801	1,026	1,225	1,424	1,573	1,722	1,867	2,012	2,167	2,322
36	615	857	1,099	1,312	1,526	1,688	1,849	2,006	2,163	2,326	2,488
37	656	915	1,174	1,406	1,638	1,811	1,984	2,157	2,330	2,502	2,675
38	697	973	1,249	1,499	1,749	1,934	2,119	2,308	2,496	2,679	2,862
39	740	1,036	1,332	1,598	1,864	2,065	2,266	2,462	2,658	2,855	3,052
40	784	1,099	1,414	1,696	1,979	2,196	2,413	2,616	2,819	3,030	3,241

TABLE 76.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	17	20	24	26	27	-----	-----	-----	-----	-----	-----
11	24	30	36	40	43	-----	-----	-----	-----	-----	-----
12	32	40	49	54	59	62	65	-----	-----	-----	-----
13	42	54	66	74	82	87	92	-----	-----	-----	-----
14	53	68	84	95	106	112	118	-----	-----	-----	-----
15	67	88	108	123	138	148	158	-----	-----	-----	-----
16	81	106	131	151	171	184	197	-----	-----	-----	-----
17	96	127	158	183	208	224	241	-----	-----	-----	-----
18	112	149	186	216	245	265	285	-----	-----	-----	-----
19	130	174	218	254	289	314	338	-----	-----	-----	-----
20	149	200	251	292	333	362	391	412	434	-----	-----
21	170	229	288	336	384	418	452	480	508	-----	-----
22	190	258	325	380	434	474	514	548	582	-----	-----
23	214	290	367	430	493	538	582	624	665	-----	-----
24	287	323	409	480	552	601	650	699	748	-----	-----
25	264	361	458	539	620	678	737	794	850	-----	-----
26	292	400	508	598	689	756	824	888	953	-----	-----
27	321	440	560	661	762	837	912	985	1,058	-----	-----
28	350	481	612	724	836	918	1,000	1,081	1,162	1,235	1,308
29	381	524	668	791	914	1,004	1,094	1,186	1,278	1,364	1,450
30	412	568	725	859	993	1,091	1,189	1,292	1,395	1,494	1,593
31	446	616	787	934	1,082	1,192	1,302	1,411	1,520	1,632	1,744
32	480	664	849	1,010	1,172	1,293	1,414	1,529	1,644	1,769	1,894
33	516	715	914	1,090	1,266	1,398	1,530	1,656	1,781	1,920	2,058
34	552	766	980	1,170	1,360	1,502	1,645	1,782	1,918	2,070	2,222
35	594	826	1,058	1,264	1,470	1,626	1,782	1,932	2,082	2,242	2,403
36	635	886	1,137	1,359	1,581	1,750	1,919	2,082	2,246	2,415	2,584
37	676	944	1,213	1,454	1,694	1,875	2,056	2,236	2,416	2,596	2,775
38	718	1,004	1,289	1,548	1,808	2,000	2,192	2,388	2,585	2,776	2,966
39	762	1,068	1,373	1,648	1,924	2,133	2,342	2,546	2,750	2,954	3,159
40	807	1,132	1,457	1,749	2,041	2,266	2,491	2,702	2,914	3,133	3,352

TABLE 77.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	18	22	26	28	30	-----	-----	-----	-----	-----	-----
11	26	32	39	42	46	-----	-----	-----	-----	-----	-----
12	34	43	52	58	63	66	69	-----	-----	-----	-----
13	45	58	71	80	88	93	98	-----	-----	-----	-----
14	56	73	90	102	113	120	127	-----	-----	-----	-----
15	70	91	112	128	144	154	165	-----	-----	-----	-----
16	83	109	135	156	176	190	203	-----	-----	-----	-----
17	100	132	164	190	216	234	251	-----	-----	-----	-----
18	117	156	194	226	257	278	299	-----	-----	-----	-----
19	136	182	227	264	301	326	352	-----	-----	-----	-----
20	154	207	260	302	345	376	406	430	453	-----	-----
21	175	236	298	348	397	434	470	499	528	-----	-----
22	196	266	335	392	449	491	533	568	602	-----	-----
23	221	300	380	446	512	559	606	650	693	-----	-----
24	246	336	426	501	576	628	680	732	784	-----	-----
25	272	373	474	558	642	703	764	822	881	-----	-----
26	299	410	521	614	708	778	848	913	978	-----	-----
27	330	454	577	682	787	865	943	1,018	1,093	-----	-----
28	361	497	633	750	866	952	1,038	1,123	1,208	1,284	1,360
29	392	541	690	818	946	1,040	1,134	1,230	1,326	1,416	1,505
30	424	586	748	887	1,026	1,128	1,230	1,337	1,444	1,547	1,650
31	458	634	810	963	1,116	1,230	1,344	1,458	1,571	1,686	1,802
32	493	683	873	1,040	1,207	1,333	1,459	1,578	1,698	1,826	1,955
33	532	738	944	1,126	1,309	1,446	1,584	1,716	1,847	1,990	2,134
34	571	794	1,016	1,214	1,411	1,560	1,709	1,852	1,996	2,154	2,313
35	610	850	1,090	1,303	1,516	1,678	1,840	1,996	2,152	2,318	2,484
36	650	908	1,165	1,394	1,622	1,796	1,970	2,140	2,309	2,482	2,656
37	695	972	1,248	1,496	1,744	1,931	2,118	2,305	2,492	2,678	2,863
38	740	1,035	1,330	1,598	1,867	2,067	2,267	2,472	2,676	2,873	3,070
39	784	1,100	1,415	1,700	1,985	2,202	2,420	2,632	2,843	3,055	3,267
40	829	1,164	1,500	1,802	2,103	2,338	2,572	2,791	3,010	3,237	3,464

TABLE 78.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	18	22	26	28	31	-----	-----	-----	-----	-----	-----
11	27	34	40	45	50	-----	-----	-----	-----	-----	-----
12	36	46	55	62	68	72	75	-----	-----	-----	-----
13	47	60	74	83	92	98	103	-----	-----	-----	-----
14	58	76	93	105	117	124	131	-----	-----	-----	-----
15	72	94	117	134	150	161	172	-----	-----	-----	-----
16	86	114	141	162	184	198	213	-----	-----	-----	-----
17	102	136	170	196	222	240	259	-----	-----	-----	-----
18	119	158	198	230	261	283	305	-----	-----	-----	-----
19	139	186	234	272	310	336	363	-----	-----	-----	-----
20	159	214	269	314	359	390	421	446	471	-----	-----
21	182	246	310	362	414	452	490	522	553	-----	-----
22	204	277	350	410	470	515	560	598	635	-----	-----
23	228	311	394	463	532	581	630	676	722	-----	-----
24	253	346	438	516	594	648	701	755	809	-----	-----
25	282	386	490	578	665	728	792	853	914	-----	-----
26	310	426	541	638	736	809	882	951	1,020	-----	-----
27	340	467	594	703	812	892	973	1,051	1,129	-----	-----
28	369	508	648	768	887	976	1,064	1,151	1,238	1,317	1,396
29	403	556	710	842	974	1,071	1,168	1,267	1,366	1,459	1,552
30	437	604	772	916	1,060	1,166	1,273	1,384	1,495	1,602	1,709
31	474	657	840	999	1,158	1,278	1,397	1,515	1,633	1,754	1,876
32	511	709	907	1,081	1,255	1,388	1,521	1,646	1,771	1,906	2,042
33	548	762	976	1,164	1,352	1,496	1,640	1,777	1,914	2,064	2,213
34	586	815	1,044	1,247	1,450	1,605	1,760	1,908	2,056	2,220	2,384
35	628	876	1,124	1,344	1,564	1,732	1,901	2,063	2,225	2,398	2,570
36	671	938	1,205	1,442	1,678	1,860	2,042	2,218	2,394	2,576	2,757
37	714	998	1,283	1,539	1,795	1,989	2,183	2,376	2,569	2,762	2,954
38	756	1,058	1,361	1,636	1,912	2,118	2,324	2,534	2,744	2,948	3,152
39	804	1,128	1,453	1,746	2,040	2,264	2,488	2,707	2,926	3,146	3,365
40	853	1,199	1,545	1,856	2,168	2,410	2,652	2,880	3,108	3,343	3,578

TABLE 79.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	19	24	28	30	32	-----	-----	-----	-----	-----	-----
11	28	35	42	47	52	-----	-----	-----	-----	-----	-----
12	37	47	57	64	71	74	78	-----	-----	-----	-----
13	49	64	78	88	98	104	110	-----	-----	-----	-----
14	61	80	98	112	125	133	141	-----	-----	-----	-----
15	74	98	121	138	156	168	180	-----	-----	-----	-----
16	88	116	144	166	188	204	219	-----	-----	-----	-----
17	106	140	175	202	230	250	270	-----	-----	-----	-----
18	123	164	206	239	272	296	320	-----	-----	-----	-----
19	144	193	242	282	322	350	379	-----	-----	-----	-----
20	164	221	278	325	372	405	438	464	490	-----	-----
21	187	254	320	374	428	468	508	541	574	-----	-----
22	210	286	361	423	485	532	579	618	657	-----	-----
23	236	322	408	480	552	604	656	704	752	-----	-----
24	262	358	455	536	618	675	732	790	847	-----	-----
25	290	397	504	595	686	753	820	884	948	-----	-----
26	317	436	554	654	755	831	907	978	1,049	-----	-----
27	348	480	612	724	836	920	1,004	1,085	1,166	-----	-----
28	380	524	669	794	918	1,010	1,101	1,192	1,284	1,366	1,448
29	414	573	732	869	1,006	1,107	1,208	1,312	1,415	1,512	1,608
30	449	622	795	944	1,094	1,204	1,314	1,430	1,546	1,657	1,768
31	486	675	864	1,028	1,193	1,316	1,440	1,563	1,686	1,812	1,937
32	524	728	932	1,112	1,292	1,429	1,566	1,696	1,827	1,966	2,106
33	564	785	1,006	1,202	1,398	1,547	1,696	1,838	1,981	2,136	2,292
34	605	842	1,080	1,292	1,503	1,664	1,826	1,980	2,135	2,306	2,478
35	646	902	1,157	1,384	1,612	1,786	1,960	2,128	2,297	2,476	2,656
36	686	960	1,234	1,478	1,721	1,908	2,095	2,277	2,459	2,646	2,833
37	732	1,025	1,318	1,582	1,847	2,048	2,248	2,448	2,648	2,847	3,046
38	778	1,090	1,403	1,688	1,973	2,188	2,402	2,620	2,838	3,048	3,259
39	827	1,162	1,496	1,799	2,102	2,335	2,568	2,795	3,022	3,249	3,476
40	876	1,232	1,589	1,910	2,232	2,484	2,735	2,971	3,207	3,450	3,694

TABLE 80.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	20	25	30	32	35	-----	-----	-----	-----	-----	-----
11	29	36	44	49	54	-----	-----	-----	-----	-----	-----
12	38	48	59	66	74	78	81	-----	-----	-----	-----
13	50	65	80	90	101	106	112	-----	-----	-----	-----
14	62	81	100	114	128	136	144	-----	-----	-----	-----
15	77	102	126	145	164	176	188	-----	-----	-----	-----
16	92	122	151	175	199	215	231	-----	-----	-----	-----
17	110	146	182	212	242	262	282	-----	-----	-----	-----
18	128	171	214	249	284	309	334	-----	-----	-----	-----
19	148	200	251	292	334	364	394	-----	-----	-----	-----
20	169	228	288	336	385	420	455	482	510	-----	-----
21	192	261	330	386	443	484	526	560	595	-----	-----
22	216	294	372	436	501	550	598	639	680	-----	-----
23	242	331	420	494	568	622	676	726	776	-----	-----
24	269	368	468	552	636	695	754	813	872	-----	-----
25	298	410	521	616	710	779	848	915	982	-----	-----
26	328	451	574	678	783	863	943	1,018	1,092	-----	-----
27	360	496	632	749	866	954	1,042	1,127	1,212	-----	-----
28	392	542	691	820	949	1,046	1,142	1,238	1,333	1,418	1,502
29	427	591	755	896	1,038	1,144	1,250	1,358	1,466	1,566	1,665
30	462	640	819	974	1,128	1,242	1,357	1,478	1,598	1,713	1,828
31	500	694	888	1,058	1,228	1,357	1,486	1,614	1,741	1,870	2,000
32	538	748	958	1,144	1,329	1,472	1,614	1,749	1,884	2,028	2,173
33	579	806	1,033	1,234	1,436	1,591	1,746	1,893	2,040	2,200	2,361
34	620	864	1,108	1,326	1,544	1,710	1,877	2,037	2,197	2,373	2,549
35	664	928	1,191	1,426	1,662	1,842	2,023	2,198	2,372	2,557	2,742
36	708	991	1,274	1,526	1,779	1,974	2,169	2,358	2,548	2,742	2,936
37	754	1,057	1,360	1,634	1,907	2,116	2,324	2,532	2,740	2,947	3,154
38	801	1,124	1,446	1,740	2,035	2,258	2,480	2,706	2,933	3,152	3,371
39	850	1,195	1,540	1,853	2,166	2,408	2,650	2,886	3,121	3,356	3,591
40	900	1,267	1,634	1,966	2,298	2,558	2,819	3,064	3,309	3,560	3,811

TABLE 81.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	21	26	31	34	37	-----	-----	-----	-----	-----	-----
11	30	38	46	52	57	-----	-----	-----	-----	-----	-----
12	40	51	62	70	77	81	85	-----	-----	-----	-----
13	52	68	83	94	105	111	117	-----	-----	-----	-----
14	64	84	104	118	133	141	149	-----	-----	-----	-----
15	80	106	131	151	171	184	196	-----	-----	-----	-----
16	96	127	158	184	209	226	243	-----	-----	-----	-----
17	114	152	190	221	252	274	296	-----	-----	-----	-----
18	132	177	222	259	296	322	348	-----	-----	-----	-----
19	153	206	260	304	347	378	410	-----	-----	-----	-----
20	174	236	297	348	398	434	471	500	528	-----	-----
21	198	269	340	399	458	501	544	580	615	-----	-----
22	222	302	383	450	517	567	617	660	702	-----	-----
23	249	340	432	509	586	641	696	748	800	-----	-----
24	276	378	480	567	654	715	776	838	899	-----	-----
25	308	423	538	636	734	806	878	948	1,017	-----	-----
26	339	467	595	704	813	896	980	1,058	1,135	-----	-----
27	372	513	654	776	897	989	1,081	1,170	1,258	-----	-----
28	404	559	714	848	981	1,082	1,182	1,281	1,380	1,469	1,558
29	440	610	779	926	1,072	1,182	1,292	1,404	1,516	1,620	1,724
30	475	660	844	1,004	1,163	1,282	1,402	1,527	1,652	1,772	1,891
31	514	714	914	1,090	1,265	1,398	1,532	1,664	1,796	1,930	2,065
32	552	768	985	1,176	1,367	1,514	1,661	1,801	1,941	2,090	2,239
33	594	828	1,061	1,268	1,476	1,636	1,796	1,948	2,100	2,266	2,431
34	635	886	1,137	1,361	1,585	1,758	1,930	2,094	2,259	2,441	2,623
35	682	954	1,226	1,468	1,711	1,899	2,087	2,268	2,448	2,640	2,832
36	729	1,022	1,315	1,576	1,837	2,040	2,244	2,440	2,637	2,839	3,041
37	776	1,089	1,402	1,685	1,968	2,185	2,402	2,618	2,833	3,048	3,262
38	824	1,157	1,490	1,794	2,098	2,330	2,561	2,795	3,029	3,256	3,483
39	874	1,230	1 585	1,908	2,231	2,482	2,732	2,976	3,220	3,464	3,707
40	924	1,302	1,680	2,022	2,364	2,634	2,904	3,157	3,410	3,670	3,931

TABLE 82.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	22	28	33	36	38	-----	-----	-----	-----	-----	-----
11	32	40	48	54	59	-----	-----	-----	-----	-----	-----
12	41	52	64	72	80	84	88	-----	-----	-----	-----
13	54	70	86	98	110	116	123	-----	-----	-----	-----
14	67	88	109	124	140	149	158	-----	-----	-----	-----
15	82	109	136	156	177	190	204	-----	-----	-----	-----
16	98	130	162	188	214	232	249	-----	-----	-----	-----
17	118	157	196	228	261	284	306	-----	-----	-----	-----
18	137	184	231	270	308	336	363	-----	-----	-----	-----
19	158	214	270	315	360	393	426	-----	-----	-----	-----
20	180	244	308	360	413	451	489	518	548	-----	-----
21	204	278	351	412	473	518	564	600	636	-----	-----
22	228	311	394	464	533	586	638	682	725	-----	-----
23	257	352	446	526	606	665	724	778	832	-----	-----
24	286	392	499	590	680	744	809	874	939	-----	-----
25	316	435	554	655	756	831	906	979	1,052	-----	-----
26	346	477	608	720	832	918	1,003	1,084	1,165	-----	-----
27	381	526	672	798	923	1,018	1,113	1,206	1,298	-----	-----
28	416	576	736	875	1,014	1,118	1,223	1,326	1,430	1,522	1,615
29	452	627	802	954	1,106	1,220	1,334	1,451	1,568	1,676	1,784
30	488	678	868	1,033	1,198	1,322	1,446	1,576	1,705	1,828	1,952
31	527	734	940	1,121	1,302	1,440	1,578	1,715	1,852	1,991	2,130
32	566	788	1,011	1,208	1,406	1,558	1,710	1,855	2,000	2,154	2,307
33	610	852	1,093	1,308	1,523	1,688	1,854	2,013	2,172	2,343	2,514
34	655	915	1,175	1,408	1,640	1,820	1,999	2,172	2,344	2,532	2,721
35	700	980	1,260	1,510	1,761	1,955	2,149	2,337	2,525	2,722	2,920
36	745	1,045	1,345	1,614	1,882	2,090	2,299	2,502	2,706	2,913	3,120
37	796	1,118	1,439	1,730	2,022	2,246	2,470	2,693	2,916	3,138	3,359
38	847	1,190	1,533	1,848	2,162	2,402	2,641	2,884	3,127	3,362	3,598
39	898	1,264	1,630	1,964	2,298	2,557	2,816	3,068	3,320	3,573	3,826
40	949	1,338	1,727	2,080	2,433	2,712	2,990	3,252	3,514	3,784	4,054

TABLE 83.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	23	29	35	38	41	-----	-----	-----	-----	-----	-----
11	34	43	52	58	64	-----	-----	-----	-----	-----	-----
12	44	56	69	78	86	91	96	-----	-----	-----	-----
13	56	74	91	104	116	123	130	-----	-----	-----	-----
14	69	91	113	129	145	154	163	-----	-----	-----	-----
15	86	114	141	162	184	198	212	-----	-----	-----	-----
16	102	136	169	196	224	242	261	-----	-----	-----	-----
17	120	161	202	236	269	292	316	-----	-----	-----	-----
18	139	187	235	274	314	342	370	-----	-----	-----	-----
19	162	219	276	323	370	404	438	-----	-----	-----	-----
20	185	251	317	372	427	466	506	538	570	-----	-----
21	211	288	364	428	492	539	586	626	666	-----	-----
22	237	324	411	484	557	612	667	714	761	-----	-----
23	264	362	461	544	623	689	750	806	863	-----	-----
24	292	402	511	604	698	765	832	898	965	-----	-----
25	324	447	570	675	780	858	937	1,012	1,088	-----	-----
26	357	493	629	746	862	952	1,042	1,126	1,211	-----	-----
27	390	540	690	820	949	1,048	1,146	1,242	1,337	-----	-----
28	424	588	752	894	1,036	1,144	1,251	1,357	1,463	1,558	1,652
29	463	643	823	980	1,136	1,254	1,372	1,492	1,612	1,723	1,834
30	502	698	894	1,064	1,235	1,364	1,492	1,626	1,761	1,889	2,017
31	544	758	971	1,159	1,347	1,491	1,635	1,778	1,920	2,064	2,209
32	586	817	1,048	1,254	1,459	1,618	1,778	1,929	2,080	2,240	2,401
33	628	877	1,126	1,348	1,570	1,743	1,916	2,080	2,244	2,422	2,600
34	671	938	1,205	1,444	1,682	1,868	2,054	2,231	2,408	2,603	2,798
35	719	1,008	1,296	1,554	1,812	2,014	2,216	2,410	2,603	2,808	3,014
36	767	1,077	1,387	1,664	1,942	2,160	2,377	2,588	2,798	3,014	3,229
37	816	1,146	1,476	1,776	2,076	2,308	2,540	2,770	3,000	3,228	3,456
38	864	1,215	1,566	1,888	2,209	2,456	2,702	2,952	3,202	3,443	3,684
39	918	1,294	1,670	2,012	2,354	2,622	2,890	3,150	3,410	3,670	3,930
40	973	1,374	1,774	2,137	2,500	2,788	3,077	3,348	3,619	3,898	4,176

TABLE 84.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	24	30	36	40	43	-----	-----	-----	-----	-----	-----
11	34	44	54	60	66	-----	-----	-----	-----	-----	-----
12	45	58	71	80	89	94	99	-----	-----	-----	-----
13	58	76	94	107	120	128	136	-----	-----	-----	-----
14	72	95	118	135	152	162	173	-----	-----	-----	-----
15	88	117	146	168	190	205	220	-----	-----	-----	-----
16	104	138	173	201	229	248	268	-----	-----	-----	-----
17	124	166	208	243	278	302	326	-----	-----	-----	-----
18	144	194	244	285	326	356	385	-----	-----	-----	-----
19	167	226	286	334	383	418	454	-----	-----	-----	-----
20	190	258	327	384	440	482	523	556	589	-----	-----
21	216	296	375	440	506	556	606	646	687	-----	-----
22	243	333	423	498	572	630	688	736	785	-----	-----
23	273	375	477	563	649	714	778	837	896	-----	-----
24	303	417	531	628	726	796	867	936	1,006	-----	-----
25	334	461	588	696	804	886	968	1,046	1,124	-----	-----
26	365	504	644	764	883	976	1,068	1,154	1,241	-----	-----
27	401	556	710	843	976	1,078	1,181	1,280	1,378	-----	-----
28	437	606	776	923	1,070	1,182	1,294	1,404	1,515	1,613	1,711
29	476	662	848	1,009	1,170	1,293	1,416	1,541	1,666	1,781	1,896
30	515	717	919	1,095	1,271	1,404	1,538	1,677	1,816	1,948	2,081
31	558	778	997	1,190	1,384	1,534	1,683	1,830	1,978	2,127	2,276
32	600	838	1,075	1,286	1,498	1,663	1,828	1,984	2,140	2,306	2,471
33	646	903	1,160	1,390	1,619	1,798	1,977	2,148	2,318	2,502	2,686
34	692	968	1,244	1,492	1,740	1,933	2,126	2,311	2,496	2,698	2,901
35	738	1,035	1,332	1,598	1,864	2,072	2,280	2,481	2,682	2,894	3,106
36	784	1,102	1,419	1,704	1,939	2,212	2,435	2,652	2,869	3,090	3,312
37	836	1,176	1,516	1,824	2,132	2,371	2,610	2,848	3,086	3,322	3,558
38	888	1,250	1,612	1,944	2,275	2,530	2,786	3,044	3,302	3,552	3,803
39	944	1,331	1,718	2,070	2,423	2,700	2,976	3,245	3,514	3,783	4,052
40	999	1,411	1,823	2,197	2,571	2,869	3,167	3,447	3,727	4,014	4,302

TABLE 85.—*Gross volume of tree, Doyle log rule*

Tree diameter (inches)	VOLUME (board feet) BY NUMBER OF USABLE 16-FOOT LOGS										
	1	1½	2	2½	3	3½	4	4½	5	5½	6
10	25	32	38	42	45	-----	-----	-----	-----	-----	-----
11	36	46	56	62	68	-----	-----	-----	-----	-----	-----
12	46	60	73	82	92	97	102	-----	-----	-----	-----
13	60	79	98	111	124	132	140	-----	-----	-----	-----
14	74	98	122	140	157	168	179	-----	-----	-----	-----
15	91	121	151	174	198	214	230	-----	-----	-----	-----
16	108	144	180	210	239	260	281	-----	-----	-----	-----
17	128	172	216	252	288	315	342	-----	-----	-----	-----
18	149	201	253	296	338	370	402	-----	-----	-----	-----
19	172	234	296	346	396	434	472	-----	-----	-----	-----
20	196	267	338	396	455	499	543	577	611	-----	-----
21	223	304	386	454	522	574	626	668	710	-----	-----
22	250	342	435	512	590	650	709	760	810	-----	-----
23	280	385	490	579	668	734	800	861	922	-----	-----
24	310	427	544	644	745	818	890	962	1,034	-----	-----
25	343	474	604	716	829	914	998	1,079	1,160	-----	-----
26	376	520	665	789	913	1,009	1,105	1,196	1,287	-----	-----
27	412	572	732	870	1,008	1,114	1,220	1,323	1,426	-----	-----
28	449	624	799	951	1,103	1,220	1,336	1,451	1,566	1,668	1,770
29	489	680	872	1,039	1,206	1,334	1,461	1,590	1,720	1,839	1,958
30	529	737	945	1,127	1,309	1,448	1,586	1,730	1,873	2,010	2,147
31	572	798	1,024	1,224	1,424	1,578	1,732	1,885	2,038	2,192	2,345
32	615	859	1,103	1,321	1,539	1,709	1,879	2,040	2,202	2,372	2,543
33	662	925	1,188	1,424	1,661	1,846	2,030	2,206	2,382	2,572	2,761
34	708	991	1,274	1,528	1,783	1,982	2,181	2,372	2,563	2,771	2,979
35	758	1,063	1,368	1,642	1,917	2,132	2,348	2,556	2,764	2,983	3,202
36	807	1,134	1,462	1,756	2,051	2,283	2,515	2,740	2,965	3,194	3,424
37	860	1,210	1,560	1,878	2,196	2,444	2,692	2,938	3,185	3,430	3,674
38	912	1,284	1,657	2,000	2,342	2,606	2,870	3,138	3,405	3,664	3,923
39	968	1,366	1,764	2,128	2,492	2,778	3,064	3,342	3,620	3,898	4,177
40	1,024	1,448	1,871	2,256	2,641	2,949	3,257	3,546	3,836	4,134	4,431

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